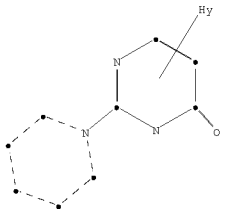
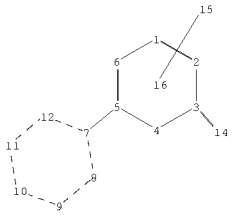
C:\Program Files\Stnexp\Queries\10538766.str



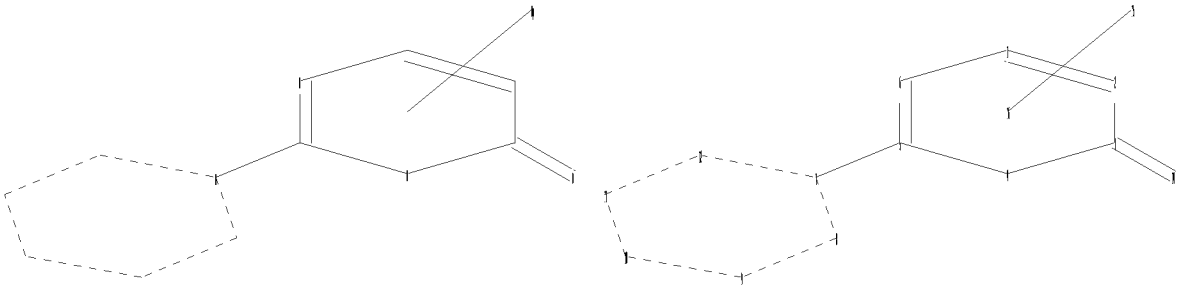



```
chain nodes :
    14  15
ring nodes :
    1  2  3  4  5  6  7  8  9  10  11  12
chain bonds :
    3-14  5-7
ring bonds :
    1-2  1-6  2-3  3-4  4-5  5-6  7-8  7-12  8-9  9-10  10-11  11-12
exact/norm bonds :
    1-2  1-6  2-3  3-4  3-14  4-5  5-6  5-7  7-8  7-12  8-9  9-10  10-11  11-12
isolated ring systems :
    containing 1 : 7 :


Match level :
    1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:Atom  11:Atom
    12:Atom  14:CLASS  15:Atom  16:CLASS
Generic attributes :
    15:
    Saturation             : Unsaturated
    Number of Carbon Atoms : less than 7
    Type of Ring System    : Monocyclic

Element Count :
    Node 15: Limited
        C,C4-5
        N,N1-2
        O,O0
        S,S0
```

=>
Uploading C:\Program Files\Stnexp\Queries\10538766.str



chain nodes :
14 15
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
chain bonds :
3-14 5-7
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
1-2 1-6 2-3 3-4 3-14 4-5 5-6 5-7 7-8 7-12 8-9 9-10 10-11 11-12
isolated ring systems :
containing 1 : 7 :

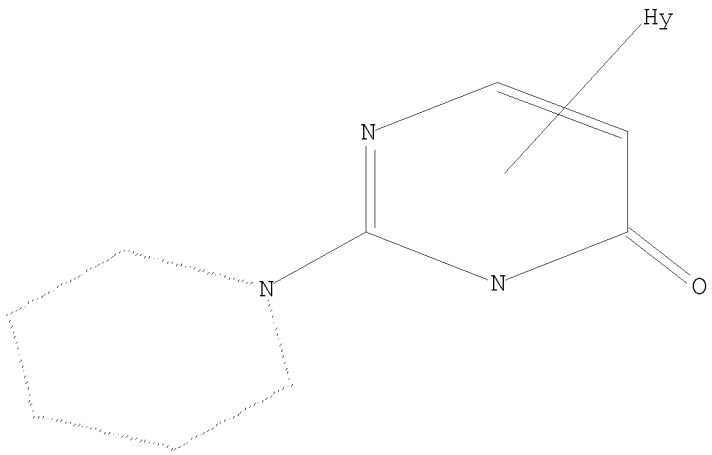
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 14:CLASS 15:Atom 16:CLASS
Generic attributes :
15:
Saturation : Unsaturated
Number of Carbon Atoms : less than 7
Type of Ring System : Monocyclic

Element Count :
Node 15: Limited
C,C4-5
N,N1-2
O,O0
S,S0

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> s l1 sss sam
SAMPLE SEARCH INITIATED 20:24:23 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     1676 TO ITERATE

100.0% PROCESSED     1676 ITERATIONS                              15 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        31065 TO    35975
PROJECTED ANSWERS:              68 TO      532

L2           15 SEA SSS SAM L1

=> => s l1 sss ful
FULL SEARCH INITIATED 20:26:02 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    33196 TO ITERATE

100.0% PROCESSED    33196 ITERATIONS                             287 ANSWERS
SEARCH TIME: 00.00.02

L3          287 SEA SSS FUL L1

=> => s l3
L4          16 L3

=> d l4 1-16 bib,ab,hitstr
```

L4 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2007:1204408 CAPLUS
DN 147:502387
TI Preparation of 2-(cyclic amino)pyrimidone derivatives as tau protein kinase 1 (TPK1) inhibitors
IN Fukunaga, Kenji; Kohara, Toshiyuki; Watanabe, Kazutoshi; Usui, Yoshihiro; Uehara, Fumiaki; Yokoshima, Satoshi; Sakai, Daiki; Kusaka, Shin-Ichi; Nakayama, Kazuki
PA Mitsubishi Pharma Corporation, Japan; Sanofi-Aventis
SO PCT Int. Appl., 325pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007119463	A1	20071025	WO 2007-JP55787	20070314
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	AU 2007239962	A1	20071025	AU 2007-239962	20070314
	CA 2644979	A1	20071025	CA 2007-2644979	20070314
	EP 2001863	A1	20081217	EP 2007-739230	20070314
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR				
	KR 2008102430	A	20081125	KR 2008-724983	20081013
	NO 2008004302	A	20081203	NO 2008-4302	20081014
PRAI	JP 2006-110242	A	20060315		
	WO 2007-JP55787	W	20070314		

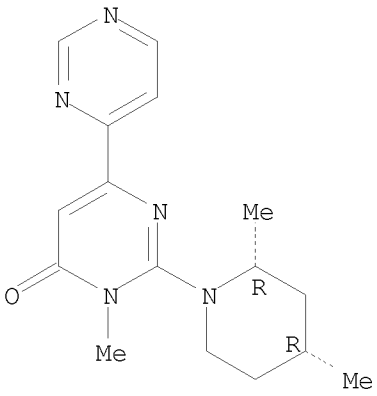
OS MARPAT 147:502387
AB The title compds. [I; R4 = cyano, A14-A13-A12; A14 = H, each (un)substituted C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, C5-7 cycloalkyl, C3-7 cycloalkenyl, C6-10 aryl, or heterocyclyl; A13 = a bond, O, (un)substituted NH; A12 = a bond, C1-3 alkylene, S, C(O), C(S), S(O)2; X = a bond, O, S, S(O), S(O)2, each (un)substituted CH2 or NH; R5 = H, (un)substituted C1-6 alkyl, (R7)s-A-(CH2)n; n = 0-3; s = 0-5; A = C6-10 aryl or a heterocyclic group; R7 = halo, nitro, cyano, C4-C3-C2-C1-; wherein C4 = H, (un)substituted C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, or C3-7 cycloalkyl, etc.; C3 = a bond, O, S, (un)substituted NH; C2 = a bond, C(O), C(S), S(O)2; C1 = a bond, C1-5 alkyl, O, S, (un)substituted NH; R6 = halo, nitro, cyano, B14-B13-B12-B11-; wherein B14 = H, each (un)substituted C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, C3-7 cycloalkyl, C3-7 cycloalkenyl, C6-10 aryl, or heterocyclyl; B13 = a bond, O, S, (un)substituted NH; B12 = a bond, C(O), C(S), S(O)2; B11 = a bond, C1-3 alkylene, O, S, (un)substituted NH; p = 0-6; Z = N, (un)substituted CH; R2 = H, halo, (un)substituted C1-6 alkyl; R3 = H, each (un)substituted CO-C1-2 alkyl, C2-12 alkenyl, C2-12 alkynyl, C3-12 cycloalkyl, C3-12 cycloalkenyl, C6-10 aryl, or heterocyclyl] or optically active isomers

thereof, or pharmaceutical acceptable salts thereof are prepared These compds. are used for the preventive and/or therapeutic treatment of a disease caused by tau protein kinase 1 hyperactivity such as neurodegenerative diseases and other diseases, in particular Alzheimer disease, ischemic cerebrovascular accidents, Down syndrome, cerebral bleeding due to cerebral amyloid angiopathy, progressive supranuclear palsy, subacute sclerosing panencephalitic parkinsonism, postencephalitic parkinsonism, pugilistic encephalitis, Guam parkinsonism-dementia complex, Lewy body disease, Pick's disease, corticobasal degeneration, frontotemporal dementia, vascular dementia, traumatic injuries, brain and spinal cord trauma, peripheral neuropathies, retinopathies, glaucoma, non-insulin dependent diabetes, obesity, manic depressive illness, schizophrenia, alopecia, breast cancer, non-small cell lung carcinoma, thyroid cancer, T or B-cell leukemia, and a virus-induced tumor. Thus, 332 mg 2-chloro-3-methyl-6-pyridin-4-yl-3H-pyrimidin-4-one was added to a solution of 313 mg 1,2,3,6,7,11b-hexahydropyrazino[2,1-a]isoquinolin-4-one and 0.223 mL Et3N in 8 mL DMF and the mixture was stirred for 4 h and stood overnight to give 555 mg 2-(1-methyl-6-oxo-4-pyridin-4-yl-1,6-dihydropyrimidin-2-yl)-1,2,3,6,7,11b-hexahydropyrazino[2,1-a]isoquinolin-4-one (II). The compound (III) showed IC50 of 1.1 nM for inhibiting P-GS1 phosphorylation by bovine cerebral TPK1. A tablet and a soft capsule formulation containing II were described.

IT 954129-77-2P 954129-78-3P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 2-(cyclic amino)-pyrimidone derivs. as tpk1 inhibitors for treating or preventing neurodegenerative diseases and other diseases)

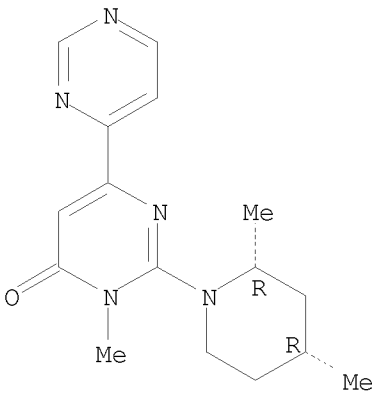
RN 954129-77-2 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[(2R,4R)-2,4-dimethyl-1-piperidinyl]-1-methyl-, rel-(-)- (CA INDEX NAME)

Rotation (-). Absolute stereochemistry unknown.



RN 954129-78-3 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[(2R,4R)-2,4-dimethyl-1-piperidinyl]-1-methyl-, rel-(+)- (CA INDEX NAME)

Rotation (+). Absolute stereochemistry unknown.



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2007:1116734 CAPLUS
DN 147:427227
TI Method for the preparation of (R)-3-aminopiperidine dihydrochloride
IN Wallace, Michael B.; Cody, Jeremy; Fornicola, Richard; Garcia-Rubio, Silvina; Kisanga, Philip B.; Reeve, Maxwell M.; Wilson, Chandra
PA Takeda Pharmaceutical Company Limited, Japan
SO PCT Int. Appl., 73pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2007112368	A1	20071004	WO 2007-US64958	20070326
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
EP 1999108	A1	20081210	EP 2007-759409	20070326
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, RS				
PRAI US 2006-787058P	P	20060328		
WO 2007-US64958	W	20070326		

OS CASREACT 147:427227; MARPAT 147:427227
AB The invention relates to a process for preparing chiral derivs. of 3-aminopiperidine, including the production of such derivs. in quantities exceeding 1 kg. The method involves esterification of (R)-2,5-diaminopentanoic acid hydrochloride with methanol and acetyl chloride followed by cyclization with sodium methoxide in methanol, and a reaction with hydrochloric acid in Me tert-Bu ether to generate intermediate (R)-3-aminopiperidin-2-one hydrochloride, which undergoes reduction with lithium aluminum hydride in THF at a temperature at least about 35°C to produce (R)-3-aminopiperidine, which is exposed to hydrochloride acid to yield (R)-3-aminopiperidine dihydrochloride (I) with a chiral purity of at least 99%. The process minimizes the need for chiral purification techniques with higher enantiomerically pure I and may apply to a large scale prodn from readily available reagents. I can be used directly in the synthesis of various Dipeptidyl Peptidase IV (DPP-IV) inhibitors without the need to further purify. The invention disclosed the reaction of I with the pyrimidine derivs. II [Q = CO, SO, SO2 or C=NR4, wherein R4 = H, (un)substituted (hetero)(cyclo)alkyl, (hetero)aryl, (hetero)arylalkyl, (hetero)bicycloaryl; R2 and R3 independently = H, NH2, CN, NO2, S, halo, (un)substituted haloalkyl, (hetero)(cyclo)alkyl, etc.; L = linker group; X = CN, OH, (un)substituted (hetero)(cyclo)alkyl, (hetero)arylalkyl, (hetero)bicycloaryl, (hetero)aryl, etc.; Z = leaving group] and III [M0 = -C-LX, N or CR6, wherein R6 = H, halo, perhaloalkyl, etc.; Q1 and Q2 independently = CO, CS, SO, SO2, and C=NR4; R0 = H, CN,

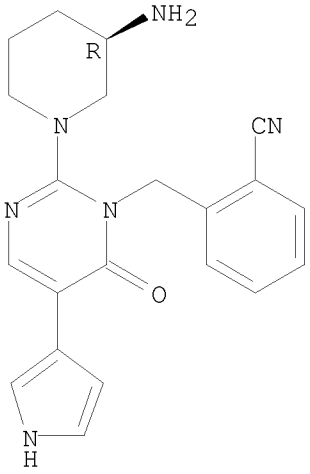
NH2, -LX, with the proviso that only one of R0 and M0 is -LX, (un)substituted (hetero)(cyclo)alkyl, etc.; R5 = H, (hetero)(cyclo)alkyl, (hetero)arylalkyl, etc.; R4, L and X are defined as in II] to synthesize IV and V, which are potential inhibitors of DPP-IV.

IT 844842-93-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of chiral pyrimidine compds. with potential DPP-IV inhibitory activity using intermediate chiral aminopiperidine dihydrochloride)

RN 844842-93-9 CAPLUS

CN Benzonitrile, 2-[[2-[(3R)-3-amino-1-piperidinyl]-6-oxo-5-(1H-pyrrol-3-yl)-1(6H)-pyrimidinyl]methyl]- (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

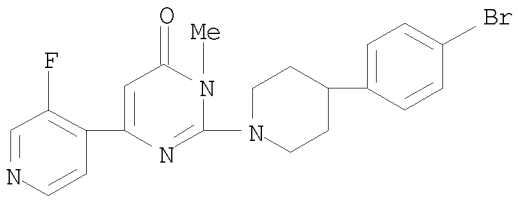
L4 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2006:317348 CAPLUS
DN 144:370114
TI Preparation of pyrimidone derivatives as inhibitors of tau protein kinase 1 for treatment of neurodegenerative diseases
IN Watanabe, Kazutoshi; Fukunaga, Kenji; Kohara, Toshiyuki; Uehara, Fumiaki; Hiki, Shinsuke; Yokoshima, Satoshi
PA Mitsubishi Pharma Corporation, Japan; Sanofi-Aventis
SO PCT Int. Appl., 232 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006036015	A2	20060406	WO 2005-JP18497	20050929
	WO 2006036015	A3	20060601		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	AU 2005288045	A1	20060406	AU 2005-288045	20050929
	AU 2005288045	A2	20080529		
	CA 2581179	A1	20060406	CA 2005-2581179	20050929
	EP 1805164	A2	20070711	EP 2005-790292	20050929
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
	CN 101048397	A	20071003	CN 2005-80033025	20050929
	JP 2008514587	T	20080508	JP 2007-533116	20050929
	BR 2005015851	A	20080812	BR 2005-15851	20050929
	MX 2007003722	A	20070523	MX 2007-3722	20070328
	KR 2007057931	A	20070607	KR 2007-708236	20070411
	NO 2007002214	A	20070612	NO 2007-2214	20070427
	IN 2007CN01835	A	20070831	IN 2007-CN1835	20070430
PRAI	JP 2004-313115	A	20040929		
	WO 2005-JP18497	W	20050929		

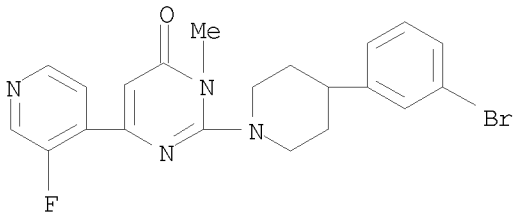
OS CASREACT 144:370114; MARPAT 144:370114
AB The title compds. I [wherein R1 = (un)substituted alkyl; R2 = H, halo, or (un)substituted alkyl; R3 and R4 = independently OH, halo, NO2, CN, etc.; R5 = H, (un)substituted aryl, or heteroaryl; X = O, NH, or the like; p = 0-7; q = 1-4] or optically active isomers, or pharmaceutically acceptable salts thereof were prepared as inhibitors of tau protein kinase 1 (TPK1) for the treatment of neurodegenerative diseases (e.g. Alzheimer disease). For example, the compound II was prepared in a multi-step synthesis. II inhibited TPK1 with IC50 of 0.27 nM. Formulations containing I as an active ingredient were also described.
IT 881916-81-0P 881916-82-1P 881916-84-3P
881916-87-6P 881916-99-0P 881917-31-3P
881917-32-4P 881917-33-5P 881917-34-6P

881917-35-7P 881917-36-8P 881917-43-7P
881917-49-3P 881917-51-7P 881917-52-8P
881917-53-9P 881917-54-0P 881917-55-1P
881917-56-2P 881917-57-3P 881917-59-5P
881917-60-8P 881917-69-7P 881917-70-0P
881917-80-2P 881917-81-3P 881917-82-4P
881918-75-8P 881918-76-9P 881919-02-4P
881919-15-9P 881919-16-0P 881919-17-1P
881919-18-2P 881919-19-3P 881919-20-6P
881919-21-7P 881919-22-8P 881919-25-1P
881919-53-5P 881919-54-6P 881919-55-7P
881919-56-8P 881919-58-0P 881919-60-4P
881919-62-6P 881922-10-7P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; preparation of pyrimidone derivs. as inhibitors of tau protein kinase 1 for treatment of neurodegenerative diseases)

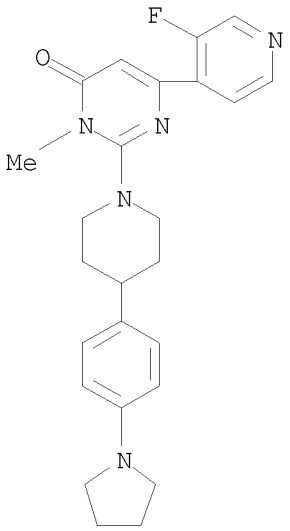
RN 881916-81-0 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(4-bromophenyl)-1-piperidinyl]-6-(3-fluoro-4-pyridinyl)-3-methyl- (CA INDEX NAME)



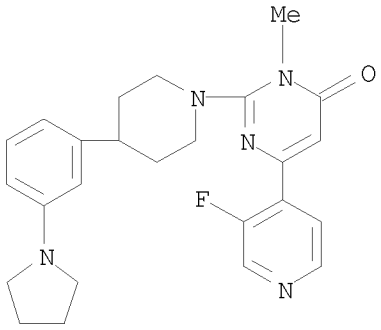
RN 881916-82-1 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(3-bromophenyl)-1-piperidinyl]-6-(3-fluoro-4-pyridinyl)-3-methyl- (CA INDEX NAME)



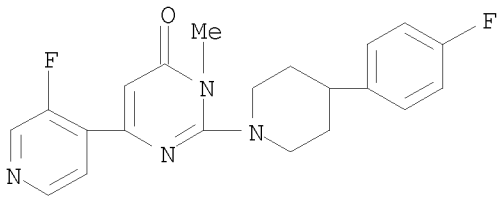
RN 881916-84-3 CAPLUS
CN 4(3H)-Pyrimidinone, 6-(3-fluoro-4-pyridinyl)-3-methyl-2-[4-[4-(1-pyrrolidinyl)phenyl]-1-piperidinyl]- (CA INDEX NAME)



RN 881916-87-6 CAPLUS
CN 4(3H)-Pyrimidinone, 6-(3-fluoro-4-pyridinyl)-3-methyl-2-[4-[3-(1-pyrrolidinyl)phenyl]-1-piperidinyl]- (CA INDEX NAME)

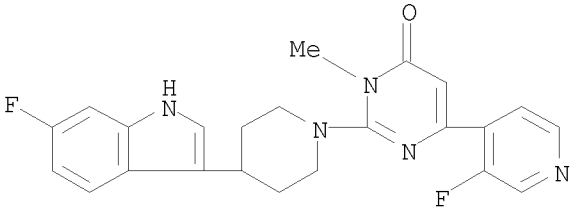


RN 881916-99-0 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(4-fluorophenyl)-1-piperidinyl]-6-(3-fluoro-4-pyridinyl)-3-methyl- (CA INDEX NAME)

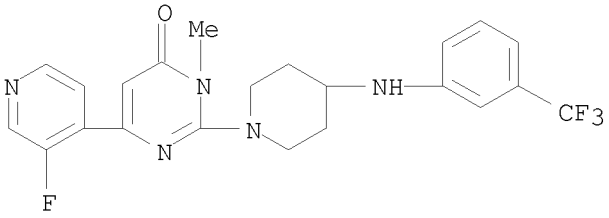


RN 881917-31-3 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(6-fluoro-1H-indol-3-yl)-1-piperidinyl]-6-(3-

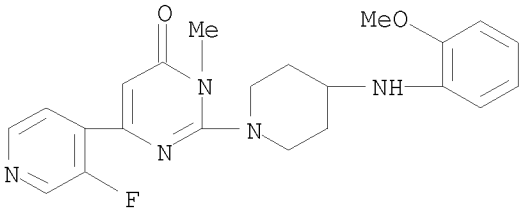
fluoro-4-pyridinyl)-3-methyl- (CA INDEX NAME)



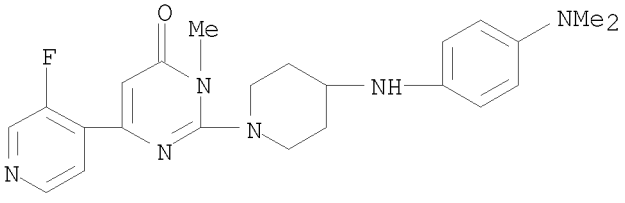
RN 881917-32-4 CAPLUS
CN 4(3H)-Pyrimidinone, 6-(3-fluoro-4-pyridinyl)-3-methyl-2-[4-[[3-(trifluoromethyl)phenyl]amino]-1-piperidinyl]- (CA INDEX NAME)



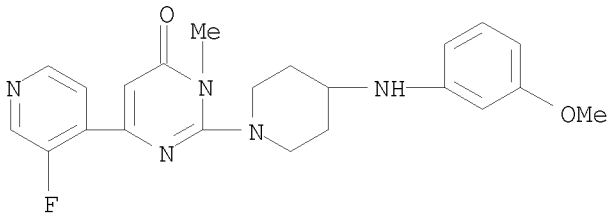
RN 881917-33-5 CAPLUS
CN 4(3H)-Pyrimidinone, 6-(3-fluoro-4-pyridinyl)-2-[4-[(2-methoxyphenyl)amino]-1-piperidinyl]-3-methyl- (CA INDEX NAME)



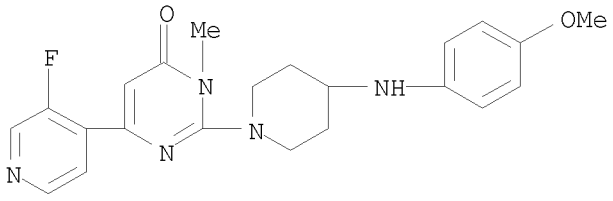
RN 881917-34-6 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-[[4-(dimethylamino)phenyl]amino]-1-piperidinyl]-6-(3-fluoro-4-pyridinyl)-3-methyl- (CA INDEX NAME)



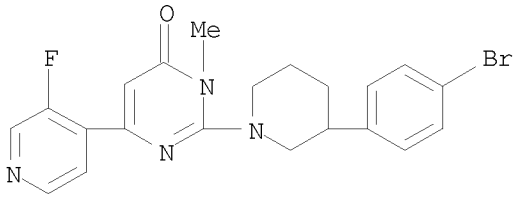
RN 881917-35-7 CAPLUS
CN 4(3H)-Pyrimidinone, 6-(3-fluoro-4-pyridinyl)-2-[4-[(3-methoxyphenyl)amino]-1-piperidinyl]-3-methyl- (CA INDEX NAME)



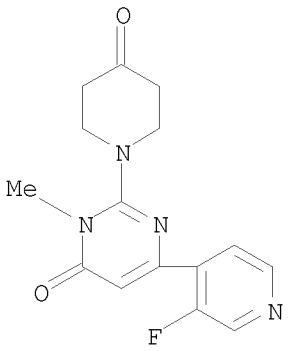
RN 881917-36-8 CAPLUS
CN 4(3H)-Pyrimidinone, 6-(3-fluoro-4-pyridinyl)-2-[4-[(4-methoxyphenyl)amino]-1-piperidinyl]-3-methyl- (CA INDEX NAME)



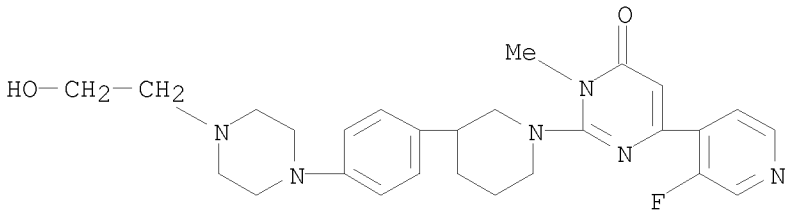
RN 881917-43-7 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-(4-bromophenyl)-1-piperidinyl]-6-(3-fluoro-4-pyridinyl)-3-methyl- (CA INDEX NAME)



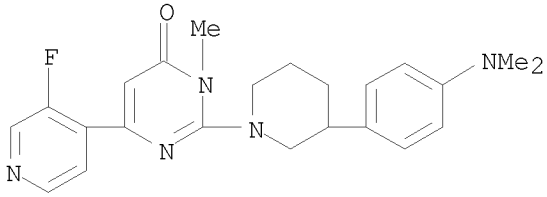
RN 881917-49-3 CAPLUS
CN 4(3H)-Pyrimidinone, 6-(3-fluoro-4-pyridinyl)-3-methyl-2-(4-oxo-1-piperidinyl)- (CA INDEX NAME)



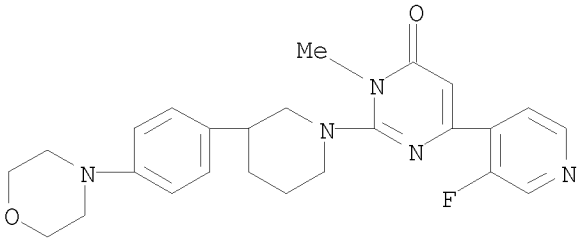
RN 881917-51-7 CAPLUS
CN 4(3H)-Pyrimidinone, 6-(3-fluoro-4-pyridinyl)-2-[3-[4-[4-(2-hydroxyethyl)-1-piperazinyl]phenyl]-1-piperidinyl]-3-methyl- (CA INDEX NAME)



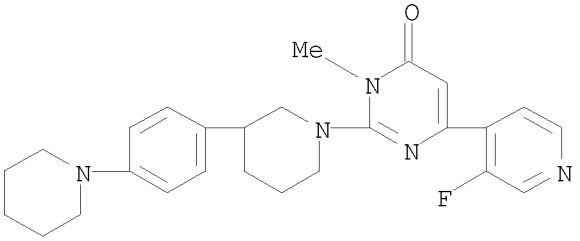
RN 881917-52-8 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-[4-(dimethylamino)phenyl]-1-piperidinyl]-6-(3-fluoro-4-pyridinyl)-3-methyl- (CA INDEX NAME)



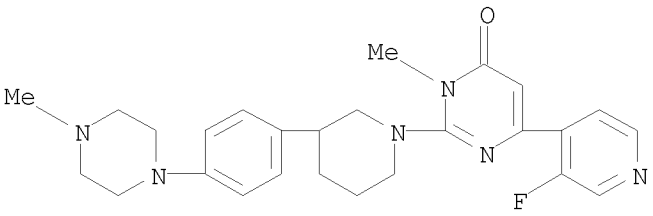
RN 881917-53-9 CAPLUS
CN 4(3H)-Pyrimidinone, 6-(3-fluoro-4-pyridinyl)-3-methyl-2-[3-[4-(4-morpholinyl)phenyl]-1-piperidinyl]- (CA INDEX NAME)



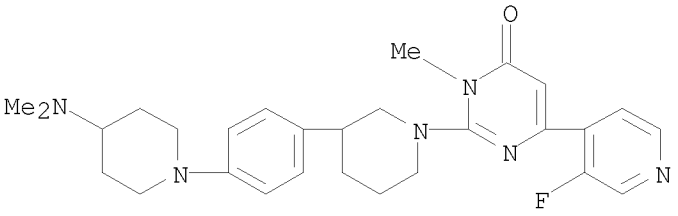
RN 881917-54-0 CAPLUS
CN 4(3H)-Pyrimidinone, 6-(3-fluoro-4-pyridinyl)-3-methyl-2-[3-[4-(1-piperidinyl)phenyl]-1-piperidinyl]- (CA INDEX NAME)



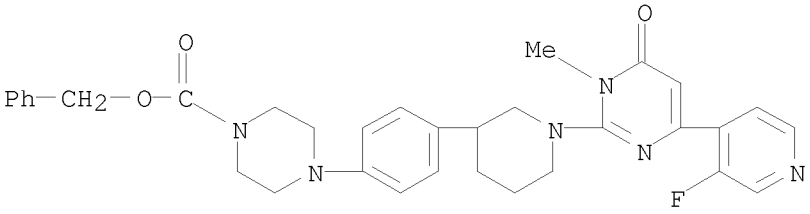
RN 881917-55-1 CAPLUS
CN 4(3H)-Pyrimidinone, 6-(3-fluoro-4-pyridinyl)-3-methyl-2-[3-[4-(4-methyl-1-piperazinyl)phenyl]-1-piperidinyl]- (CA INDEX NAME)



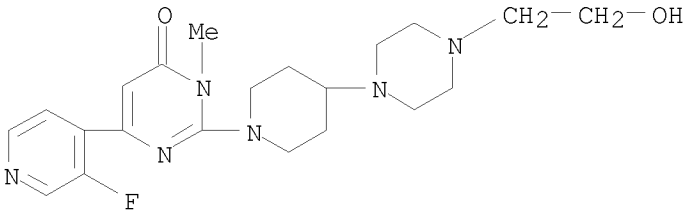
RN 881917-56-2 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-[4-[4-(dimethylamino)-1-piperidinyl]phenyl]-1-piperidinyl]-6-(3-fluoro-4-pyridinyl)-3-methyl- (CA INDEX NAME)



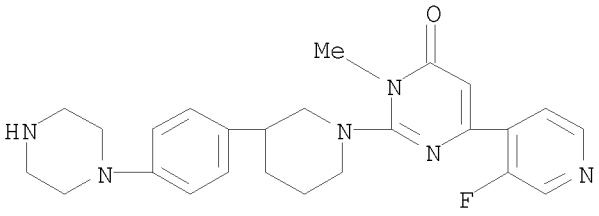
RN 881917-57-3 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[4-[1-[4-(3-fluoro-4-pyridinyl)-1,6-dihydro-1-methyl-6-oxo-2-pyrimidinyl]-3-piperidinyl]phenyl]-, phenylmethyl ester (CA INDEX NAME)



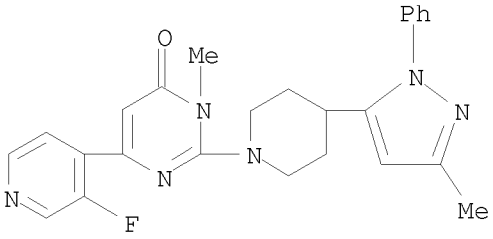
RN 881917-59-5 CAPLUS
CN 4(3H)-Pyrimidinone, 6-(3-fluoro-4-pyridinyl)-2-[4-[4-(2-hydroxyethyl)-1-piperazinyl]-1-piperidinyl]-3-methyl- (CA INDEX NAME)



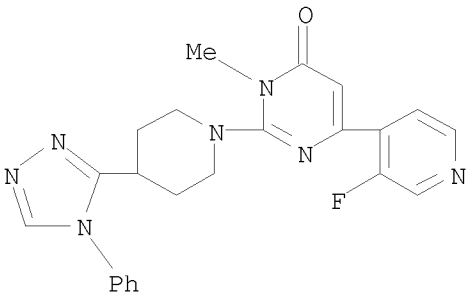
RN 881917-60-8 CAPLUS
CN 4(3H)-Pyrimidinone, 6-(3-fluoro-4-pyridinyl)-3-methyl-2-[3-[4-(1-piperazinyl)phenyl]-1-piperidinyl]- (CA INDEX NAME)



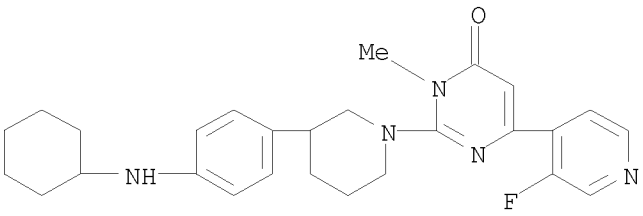
RN 881917-69-7 CAPLUS
CN 4(3H)-Pyrimidinone, 6-(3-fluoro-4-pyridinyl)-3-methyl-2-[4-(3-methyl-1-phenyl-1H-pyrazol-5-yl)-1-piperidinyl]- (CA INDEX NAME)



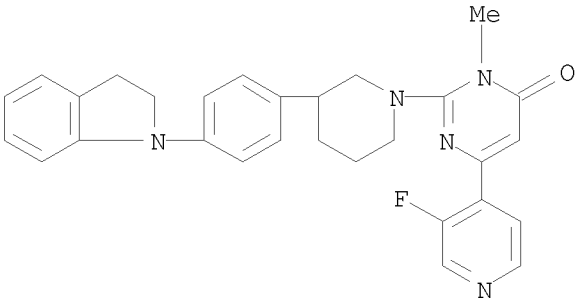
RN 881917-70-0 CAPLUS
CN 4(3H)-Pyrimidinone, 6-(3-fluoro-4-pyridinyl)-3-methyl-2-[4-(4-phenyl-4H-1,2,4-triazol-3-yl)-1-piperidinyl]- (CA INDEX NAME)



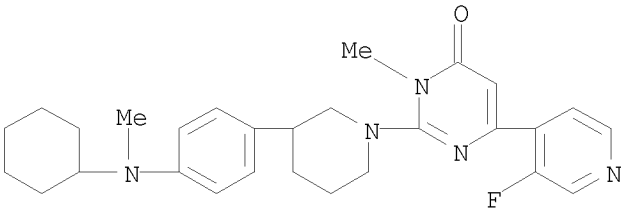
RN 881917-80-2 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-[4-(cyclohexylamino)phenyl]-1-piperidinyl]-6-(3-fluoro-4-pyridinyl)-3-methyl- (CA INDEX NAME)



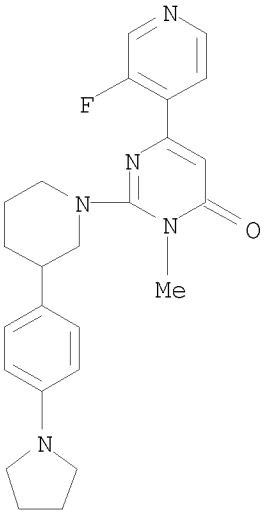
RN 881917-81-3 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-[4-(2,3-dihydro-1H-indol-1-yl)phenyl]-1-piperidinyl]-6-(3-fluoro-4-pyridinyl)-3-methyl- (CA INDEX NAME)



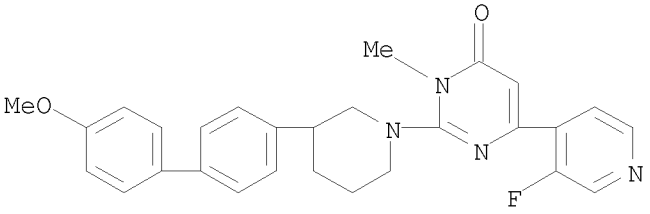
RN 881917-82-4 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-[4-(cyclohexylmethylamino)phenyl]-1-piperidinyl]-6-(3-fluoro-4-pyridinyl)-3-methyl- (CA INDEX NAME)



RN 881918-75-8 CAPLUS
CN 4(3H)-Pyrimidinone, 6-(3-fluoro-4-pyridinyl)-3-methyl-2-[3-[4-(1-pyrrolidinyl)phenyl]-1-piperidinyl]- (CA INDEX NAME)

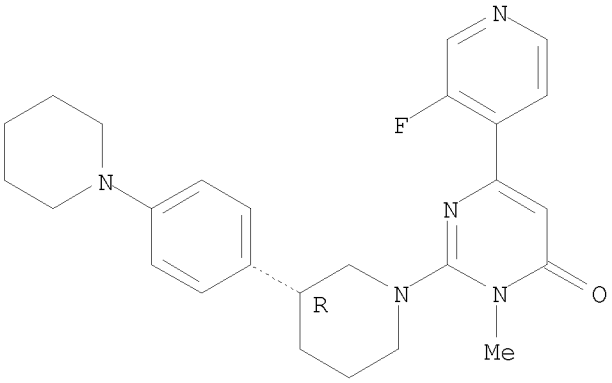


RN 881918-76-9 CAPLUS
CN 4(3H)-Pyrimidinone, 6-(3-fluoro-4-pyridinyl)-2-[3-(4'-methoxy[1,1'-biphenyl]-4-yl)-1-piperidinyl]-3-methyl- (CA INDEX NAME)



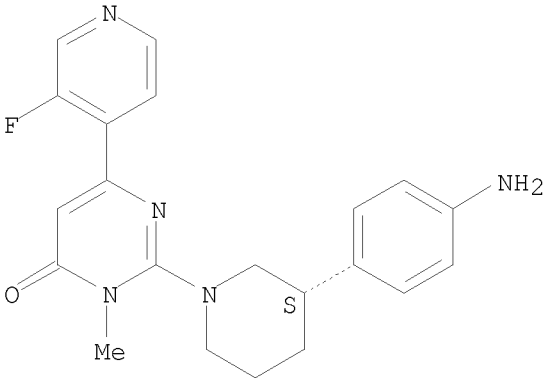
RN 881919-02-4 CAPLUS
CN 4(3H)-Pyrimidinone, 6-(3-fluoro-4-pyridinyl)-3-methyl-2-[(3R)-3-[4-(1-piperidinyl)phenyl]-1-piperidinyl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 881919-15-9 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[(3S)-3-(4-aminophenyl)-1-piperidinyl]-6-(3-fluoro-4-pyridinyl)-3-methyl- (CA INDEX NAME)

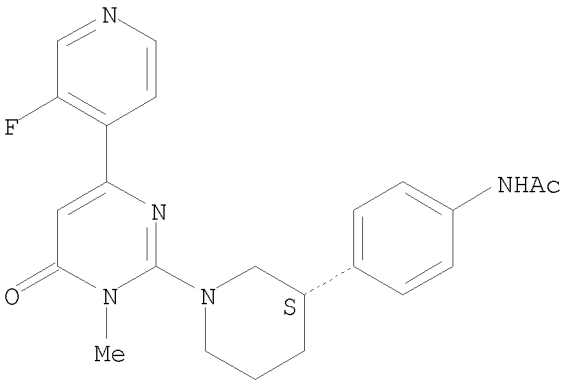
Absolute stereochemistry.



RN 881919-16-0 CAPLUS

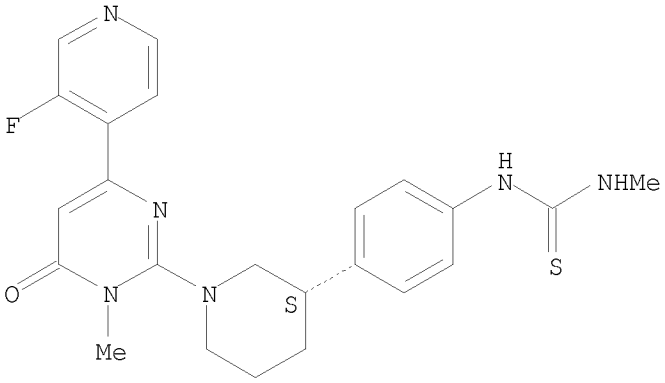
CN Acetamide, N-[4-[(3S)-1-[4-(3-fluoro-4-pyridinyl)-1,6-dihydro-1-methyl-6-oxo-2-pyrimidinyl]-3-piperidinyl]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



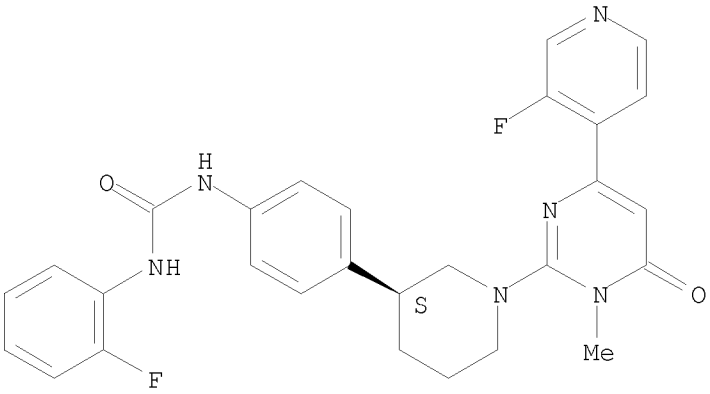
RN 881919-17-1 CAPLUS
CN Thiourea, N-[4-[(3S)-1-[4-(3-fluoro-4-pyridinyl)-1,6-dihydro-1-methyl-6-oxo-2-pyrimidinyl]-3-piperidinyl]phenyl]-N'-methyl- (CA INDEX NAME)

Absolute stereochemistry.



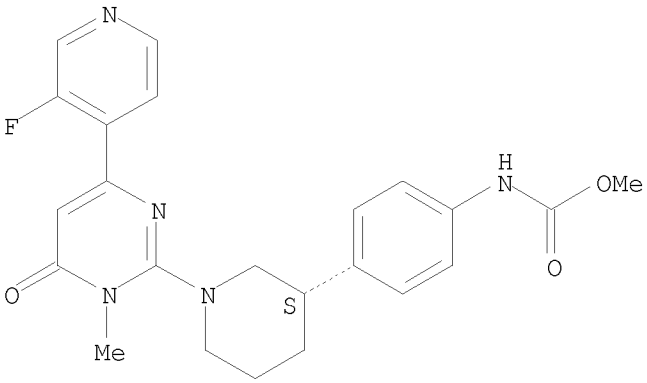
RN 881919-18-2 CAPLUS
CN Urea, N-(2-fluorophenyl)-N'-[4-[(3S)-1-[4-(3-fluoro-4-pyridinyl)-1,6-dihydro-1-methyl-6-oxo-2-pyrimidinyl]-3-piperidinyl]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



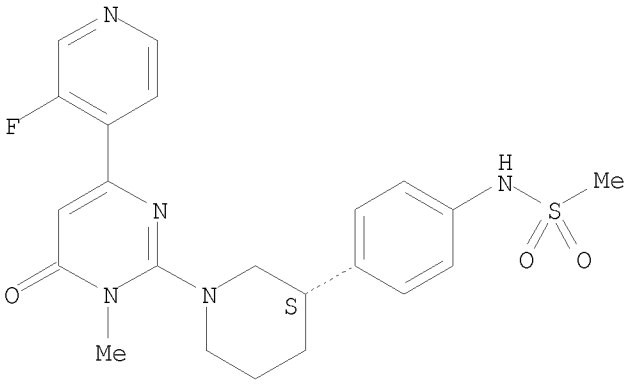
RN 881919-19-3 CAPLUS
CN Carbamic acid, [4-[(3S)-1-[4-(3-fluoro-4-pyridinyl)-1,6-dihydro-1-methyl-6-oxo-2-pyrimidinyl]-3-piperidinyl]phenyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



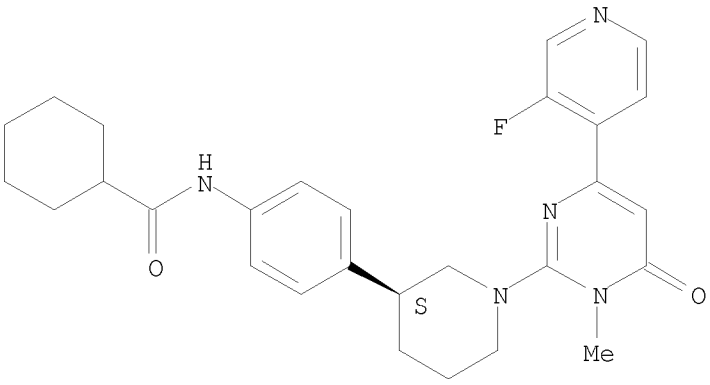
RN 881919-20-6 CAPLUS
CN Methanesulfonamide, N-[4-[(3S)-1-[4-(3-fluoro-4-pyridinyl)-1,6-dihydro-1-methyl-6-oxo-2-pyrimidinyl]-3-piperidinyl]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



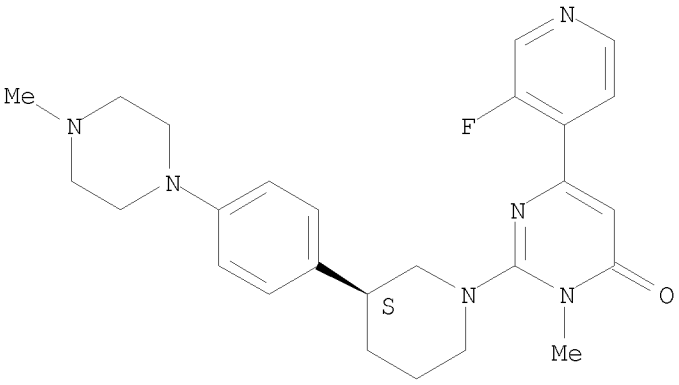
RN 881919-21-7 CAPLUS
CN Cyclohexanecarboxamide, N-[4-[(3S)-1-[4-(3-fluoro-4-pyridinyl)-1,6-dihydro-1-methyl-6-oxo-2-pyrimidinyl]-3-piperidinyl]phenyl]- (CA INDEX NAME)

Absolute stereochemistry.



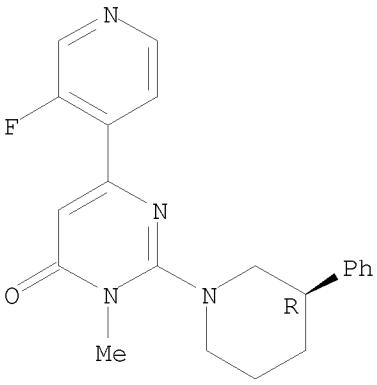
RN 881919-22-8 CAPLUS
CN 4(3H)-Pyrimidinone, 6-(3-fluoro-4-pyridinyl)-3-methyl-2-[(3S)-3-[4-(4-methyl-1-piperazinyl)phenyl]-1-piperidinyl]- (CA INDEX NAME)

Absolute stereochemistry.

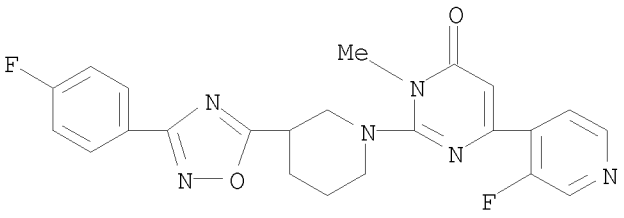


RN 881919-25-1 CAPLUS
CN 4(3H)-Pyrimidinone, 6-(3-fluoro-4-pyridinyl)-3-methyl-2-[(3R)-3-phenyl-1-piperidinyl]- (CA INDEX NAME)

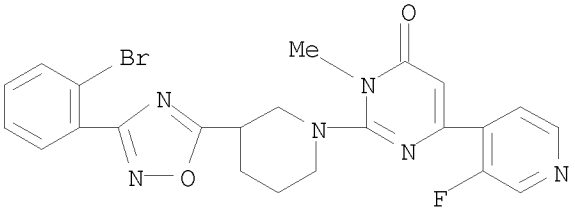
Absolute stereochemistry.



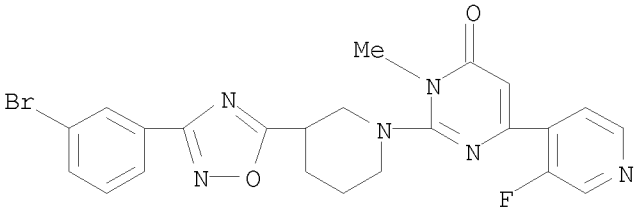
RN 881919-53-5 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-[3-(4-fluorophenyl)-1,2,4-oxadiazol-5-yl]-1-piperidinyl]-6-(3-fluoro-4-pyridinyl)-3-methyl- (CA INDEX NAME)



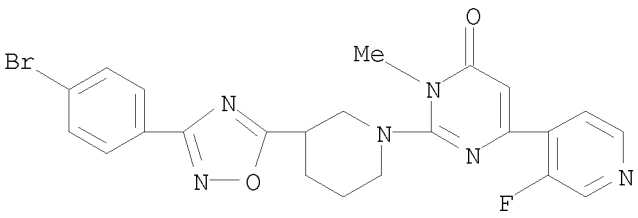
RN 881919-54-6 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-[3-(2-bromophenyl)-1,2,4-oxadiazol-5-yl]-1-piperidinyl]-6-(3-fluoro-4-pyridinyl)-3-methyl- (CA INDEX NAME)



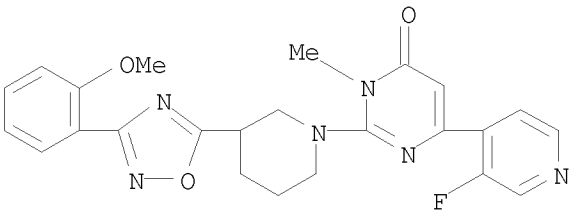
RN 881919-55-7 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-[3-(3-bromophenyl)-1,2,4-oxadiazol-5-yl]-1-piperidinyl]-6-(3-fluoro-4-pyridinyl)-3-methyl- (CA INDEX NAME)



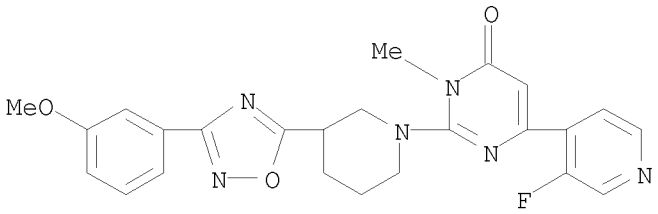
RN 881919-56-8 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-[3-(4-bromophenyl)-1,2,4-oxadiazol-5-yl]-1-piperidinyl]-6-(3-fluoro-4-pyridinyl)-3-methyl- (CA INDEX NAME)



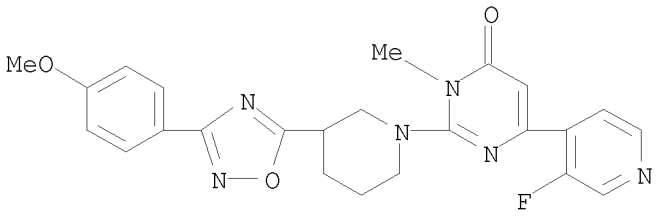
RN 881919-58-0 CAPLUS
CN 4(3H)-Pyrimidinone, 6-(3-fluoro-4-pyridinyl)-2-[3-[3-(2-methoxyphenyl)-1,2,4-oxadiazol-5-yl]-1-piperidinyl]-3-methyl- (CA INDEX NAME)



RN 881919-60-4 CAPLUS
CN 4(3H)-Pyrimidinone, 6-(3-fluoro-4-pyridinyl)-2-[3-[3-(3-methoxyphenyl)-1,2,4-oxadiazol-5-yl]-1-piperidinyl]-3-methyl- (CA INDEX NAME)

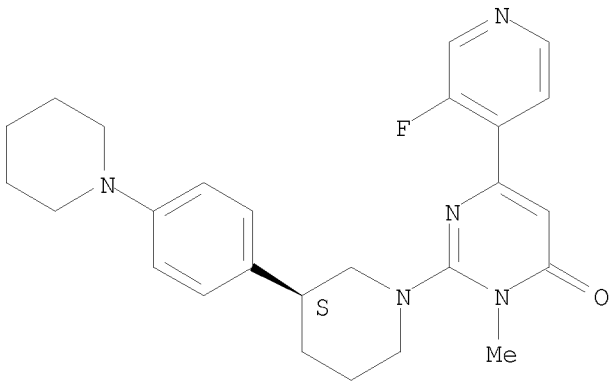


RN 881919-62-6 CAPLUS
CN 4(3H)-Pyrimidinone, 6-(3-fluoro-4-pyridinyl)-2-[3-[3-(4-methoxyphenyl)-1,2,4-oxadiazol-5-yl]-1-piperidinyl]-3-methyl- (CA INDEX NAME)



RN 881922-10-7 CAPLUS
CN 4(3H)-Pyrimidinone, 6-(3-fluoro-4-pyridinyl)-3-methyl-2-[(3S)-3-[4-(1-piperidinyl)phenyl]-1-piperidinyl]- (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:135412 CAPLUS
DN 142:240442
TI Preparation of pyrimidinones as dipeptidyl peptidase IV (DPP-IV) inhibitors
IN Feng, Jun; Gwaltney, Stephen L., II; Kaldor, Stephen W.; Stafford, Jeffrey A.; Wallace, Michael B.; Zhang, Zhiyuan
PA Syrrx, Inc., USA
SO Eur. Pat. Appl., 102 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1506967	A1	20050216	EP 2004-254864	20040812
	EP 1506967	B1	20071121		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
	AU 2004265341	A1	20050224	AU 2004-265341	20040812
	CA 2535619	A1	20050224	CA 2004-2535619	20040812
	WO 2005016911	A1	20050224	WO 2004-US26265	20040812
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 20050065148	A1	20050324	US 2004-918318	20040812
	US 20050070530	A1	20050331	US 2004-917955	20040812
	US 7470700	B2	20081230		
	US 20050070531	A1	20050331	US 2004-918186	20040812
	US 20050070535	A1	20050331	US 2004-918317	20040812
	US 20050070706	A1	20050331	US 2004-918326	20040812
	US 20050075330	A1	20050407	US 2004-918327	20040812
	BR 2004013452	A	20061017	BR 2004-13452	20040812
	CN 1867560	A	20061122	CN 2004-80030005	20040812
	EP 1911754	A1	20080416	EP 2007-22416	20040812
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, HR, LT, LV, MK				
	JP 2005060401	A	20050310	JP 2004-263071	20040813
	MX 2006001601	A	20060825	MX 2006-1601	20060209
	KR 2006041309	A	20060511	KR 2006-703037	20060213
	IN 2006KN00564	A	20070803	IN 2006-KN564	20060309
	NO 2006001157	A	20060511	NO 2006-1157	20060310
PRAI	US 2003-495238P	P	20030813		
	EP 2004-254864	A3	20040812		
	WO 2004-US26265	W	20040812		

OS CASREACT 142:240442; MARPAT 142:240442
AB Title compds. [I; Q = CO, SO, SO2, C:NR4; Z = halo, perhaloalkyl, amino, cyano, (substituted) alkyl, cycloalkyl, aryl, heteroaryl, alkylcarbonyl, etc.; R2, R3 = H, halo, perhaloalkyl, amino, cyano, NO2, SH, (substituted)

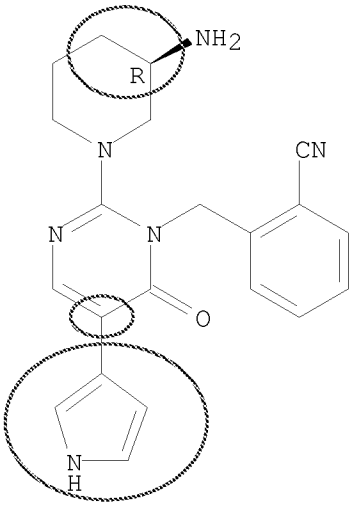
alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aralkyl, heteroarylalkyl, aryl, heteroaryl, etc.; R4 = H, (substituted) alkyl, cycloalkyl, heterocycloalkyl, aryl, heteroaryl, aralkyl, heteroaralkyl, bicycloaryl, heterobicycloaryl; L = 0-6 atom linker; X = OH, (substituted) alkyl, cycloalkyl, heterocycloalkyl, aralkyl, heteroaralkyl, bicycloaryl, heterobicycloaryl, alkylcarbonyl, alkylthiocarbonyl, alkylsulfinyl, aryl, heteroaryl, alkoxy, aryloxy, heteroaryloxy, alkenyl, alkynyl, etc.], were prepared Thus, 2-(5-bromo-2-chloro-6-oxo-6H-pyrimidin-1-ylmethyl)benzonitrile (preparation given), (R)-3-aminopiperidine dihydrochloride, and NaHCO3 were stirred together for 90 min. in EtOH to give 62% 2-[2-(3-aminopiperidin-1-yl)-5-bromo-6-oxo-6H-pyrimidin-1-ylmethyl]benzonitrile. I inhibited DPP-IV with Ki = 10-9 M to 10-5 M.

IT 844842-93-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(claimed compound; preparation of pyrimidinones as dipeptidyl peptidase IV inhibitors)

RN 844842-93-9 CAPLUS

CN Benzonitrile, 2-[[2-[(3R)-3-amino-1-piperidinyl]-6-oxo-5-(1H-pyrrol-3-yl)-1(6H)-pyrimidinyl]methyl]- (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2004:817871 CAPLUS
DN 141:332207
TI Preparation of 2,3,6-trisubstituted-4-pyrimidones as tau protein kinase 1 inhibitors
IN Watanabe, Kazutoshi; Uehara, Fumiaki; Hiki, Shinsuke; Yokoshima, Satoshi; Usui, Yoshihiro; Okuyama, Masahiro; Shoda, Aya; Aritomo, Keiichi; Kohara, Toshiyuki; Fukunaga, Kenji
PA Mitsubishi Pharma Corporation, Japan; Sanofi-Synthelabo
SO PCT Int. Appl., 433 pp.
CODEN: PIXXD2
common inventor
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004085408	A1	20041007	WO 2004-JP4320	20040326
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004223987	A1	20041007	AU 2004-223987	20040326
CA 2520027	A1	20041007	CA 2004-2520027	20040326
EP 1608630	A1	20051228	EP 2004-723777	20040326
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
BR 2004009042	A	20060328	BR 2004-9042	20040326
CN 1764650	A	20060426	CN 2004-80008065	20040326
JP 2006521370	T	20060921	JP 2006-507692	20040326
NZ 543096	A	20080731	NZ 2004-543096	20040326
MX 2005010323	A	20061207	MX 2005-10323	20050923
NO 2005004952	A	20051025	NO 2005-4952	20051025
IN 2005CN02772	A	20070608	IN 2005-CN2772	20051026
US 20060252768	A1	20061109	US 2006-550299	20060531
US 7504411	B2	20090317		
PRAI JP 2003-126021	A	20030326		
JP 2003-126022	A	20030326		
WO 2004-JP4320	W	20040326		

contains piperidine as compared to dihydro-pyridine in the claims

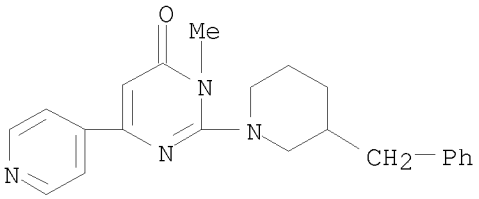
OS MARPAT 141:332207
AB The title compds. I [Q = CH, N; R = (un)substituted alkyl; A represents piperazine ring or piperidine ring; each X = alkyl, optionally partially hydrogenated aryl ring, indan ring or the like; m = 1-3; each Y = halo, OH, CN, alkyl or the like; n = 0-8; when X and Y or two Y groups are attached to the same carbon atom, they may combine to each other to form a C2-C6 alkylene group; and their salts] having tau protein kinase 1 inhibitory and therefore useful for preventive and/or therapeutic treatment of diseases such as neurodegenerative diseases (e.g., Alzheimer disease), were prepared and formulated. E.g., a multi-step synthesis of II.2HCl (starting from 2-bromo-5-fluoroanisole), was given. The biol. data (IC50 values against P-GS1 phosphorylation by bovine cerebral TPK1)

were given for representative compds. I.

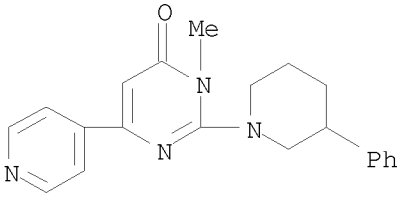
IT 769942-18-9P 769942-19-0P 769942-20-3P
769942-21-4P 769942-22-5P 769942-23-6P
769942-24-7P 769942-25-8P 769942-26-9P
769942-27-0P 769942-28-1P 769942-29-2P
769942-30-5P 769942-31-6P 769942-32-7P
769942-33-8P 769942-34-9P 769942-35-0P
769942-36-1P 769942-37-2P 769942-38-3P
769942-39-4P 769942-40-7P 769942-41-8P
769942-42-9P 769942-44-1P 769942-46-3P
769942-47-4P 769942-48-5P 769942-49-6P
769942-50-9P 769942-51-0P 769942-52-1P
769942-53-2P 769942-54-3P 769942-55-4P
769942-56-5P 769942-57-6P 769942-58-7P
769942-59-8P 769942-60-1P 769942-61-2P
769942-62-3P 769942-63-4P 769942-64-5P
769942-65-6P 769942-66-7P 769942-67-8P
769942-68-9P 769942-69-0P 769942-70-3P
769942-71-4P 769942-72-5P 769942-73-6P
769942-74-7P 769942-75-8P 769942-76-9P
769942-77-0P 769942-78-1P 769942-79-2P
769942-80-5P 769942-81-6P 769942-82-7P
769942-83-8P 769942-84-9P 769942-85-0P
769942-86-1P 769942-87-2P 769942-88-3P
769942-89-4P 769942-90-7P 769942-91-8P
769942-92-9P 769942-93-0P 769942-94-1P
769942-95-2P 769942-96-3P 769942-97-4P
769942-98-5P 769942-99-6P 769943-97-7P
769943-98-8P 769943-99-9P 769944-00-5P
769944-01-6P 769944-02-7P 769944-03-8P
769944-04-9P 769944-05-0P 769944-06-1P
769944-07-2P 769944-08-3P 769944-09-4P
769944-10-7P 769944-11-8P 769944-12-9P
769944-13-0P 769944-14-1P 769944-15-2P
769944-16-3P 769944-17-4P 769944-18-5P
769944-19-6P 769944-20-9P 769944-21-0P
769944-22-1P 769944-23-2P 769944-24-3P
769944-25-4P 769944-26-5P 769944-27-6P
769944-28-7P 769944-29-8P 769944-30-1P
769944-31-2P 769944-32-3P 769944-33-4P
769944-34-5P 769945-17-7P 769945-18-8P
769945-19-9P 769945-34-8P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 2,3,6-trisubstituted-4-pyrimidones as tau protein kinase 1 inhibitors for treatment and/or prevention of neurodegenerative diseases)

RN 769942-18-9 CAPLUS

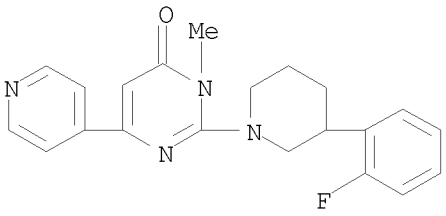
CN 4(3H)-Pyrimidinone, 3-methyl-2-[3-(phenylmethyl)-1-piperidinyl]-6-(4-pyridinyl)- (CA INDEX NAME)



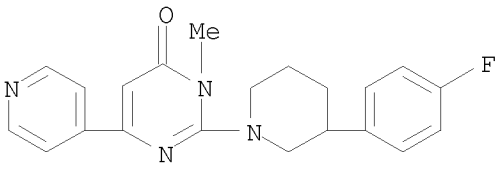
RN 769942-19-0 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-2-(3-phenyl-1-piperidinyl)-6-(4-pyridinyl)-
(CA INDEX NAME)



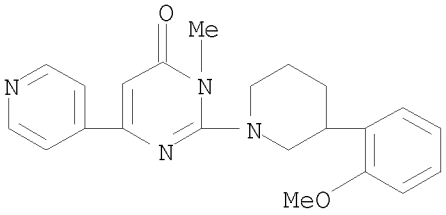
RN 769942-20-3 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-(2-fluorophenyl)-1-piperidinyl]-3-methyl-6-(4-
pyridinyl)- (CA INDEX NAME)



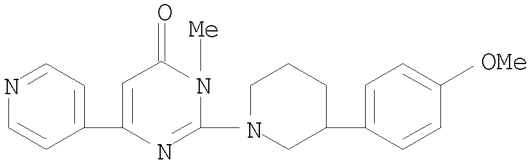
RN 769942-21-4 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-(4-fluorophenyl)-1-piperidinyl]-3-methyl-6-(4-
pyridinyl)- (CA INDEX NAME)



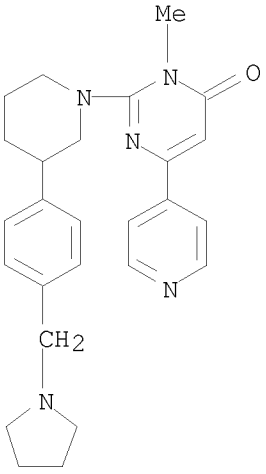
RN 769942-22-5 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-(2-methoxyphenyl)-1-piperidinyl]-3-methyl-6-(4-
pyridinyl)- (CA INDEX NAME)



RN 769942-23-6 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-(4-methoxyphenyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



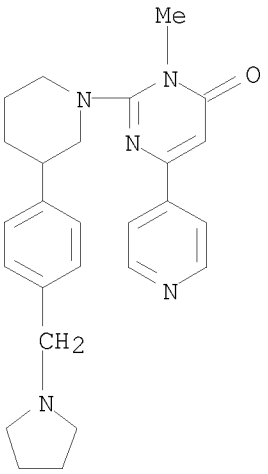
RN 769942-24-7 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-6-(4-pyridinyl)-2-[3-[4-(1-pyrrolidinylmethyl)phenyl]-1-piperidinyl]- (CA INDEX NAME)



RN 769942-25-8 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-6-(4-pyridinyl)-2-[3-[4-(1-pyrrolidinylmethyl)phenyl]-1-piperidinyl]-, (2E)-2-butenedioate (9CI) (CA INDEX NAME)

CM 1

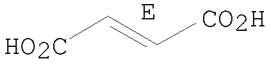
CRN 769942-24-7
CMF C26 H31 N5 O



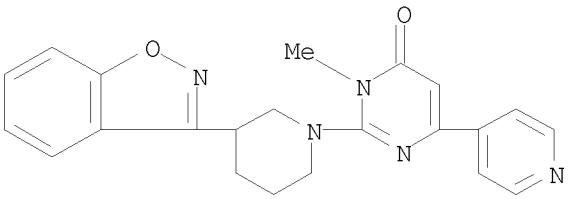
CM 2

CRN 110-17-8
CMF C4 H4 O4

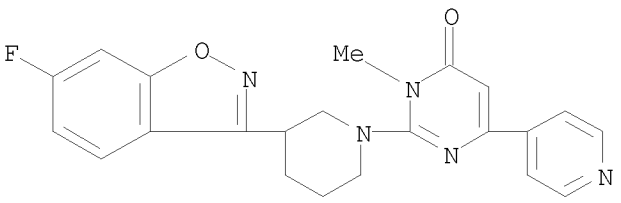
Double bond geometry as shown.



RN 769942-26-9 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-(1,2-benzisoxazol-3-yl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)

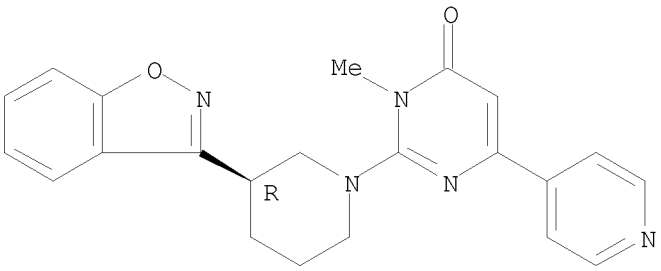


RN 769942-27-0 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-(6-fluoro-1,2-benzisoxazol-3-yl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



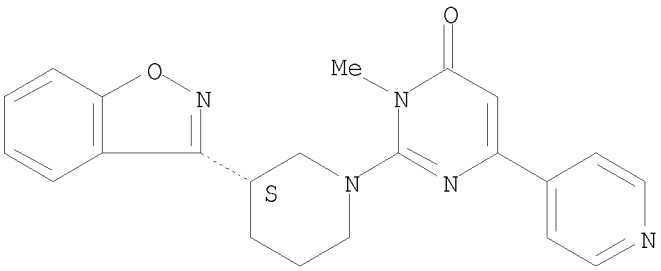
RN 769942-28-1 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[(3R)-3-(1,2-benzisoxazol-3-yl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)

Absolute stereochemistry.

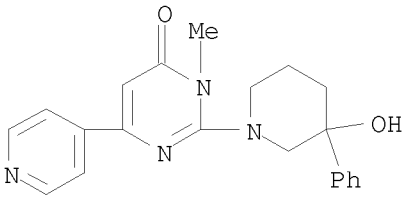


RN 769942-29-2 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[(3S)-3-(1,2-benzisoxazol-3-yl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)

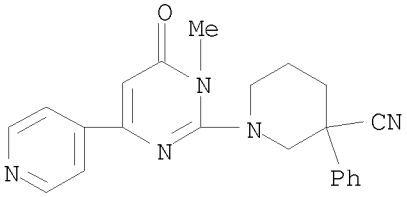
Absolute stereochemistry.



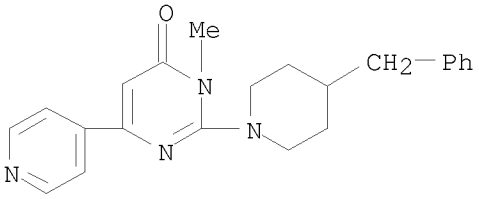
RN 769942-30-5 CAPLUS
CN 4(3H)-Pyrimidinone, 2-(3-hydroxy-3-phenyl-1-piperidinyl)-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



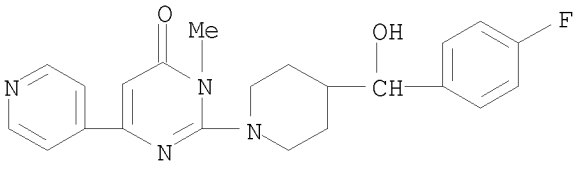
RN 769942-31-6 CAPLUS
CN 3-Piperidinecarbonitrile, 1-[1,6-dihydro-1-methyl-6-oxo-4-(4-pyridinyl)-2-pyrimidinyl]-3-phenyl- (CA INDEX NAME)



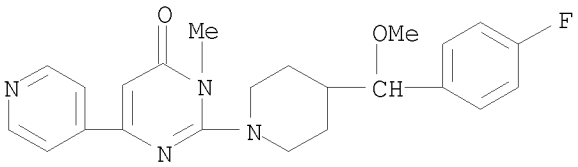
RN 769942-32-7 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-2-[4-(phenylmethyl)-1-piperidinyl]-6-(4-pyridinyl)- (CA INDEX NAME)



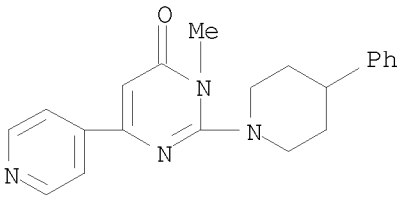
RN 769942-33-8 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-[(4-fluorophenyl)hydroxymethyl]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



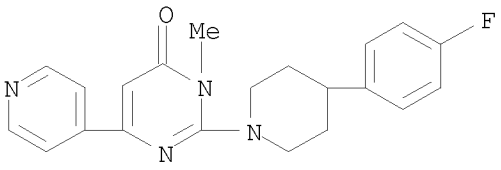
RN 769942-34-9 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-[(4-fluorophenyl)methoxymethyl]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



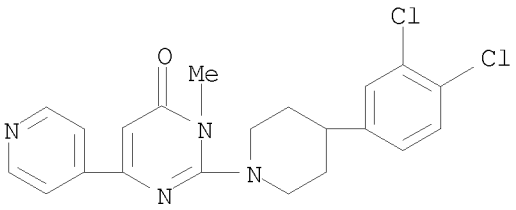
RN 769942-35-0 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-2-(4-phenyl-1-piperidinyl)-6-(4-pyridinyl)- (CA INDEX NAME)



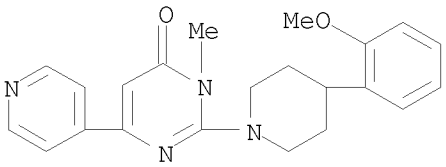
RN 769942-36-1 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(4-fluorophenyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



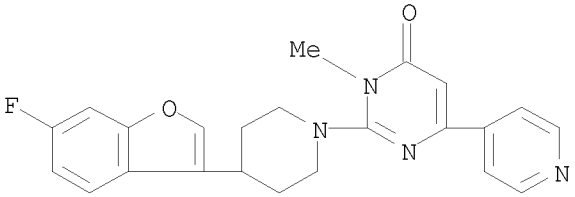
RN 769942-37-2 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(3,4-dichlorophenyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



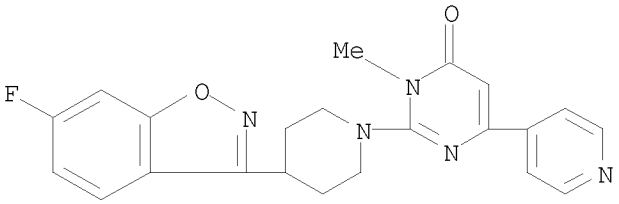
RN 769942-38-3 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(2-methoxyphenyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



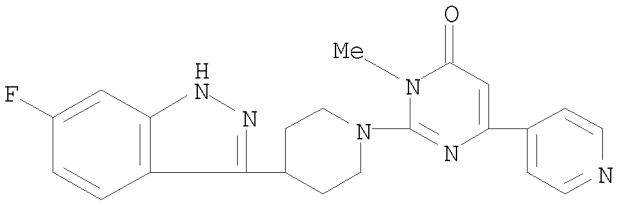
RN 769942-39-4 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



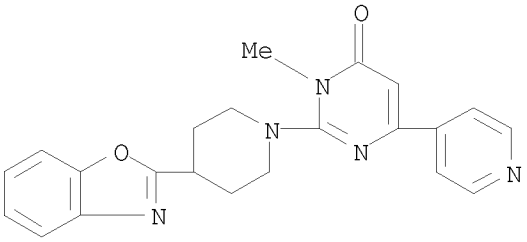
RN 769942-40-7 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(6-fluoro-1,2-benzisoxazol-3-yl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



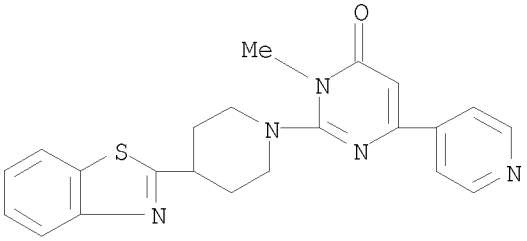
RN 769942-41-8 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(6-fluoro-1H-indazol-3-yl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



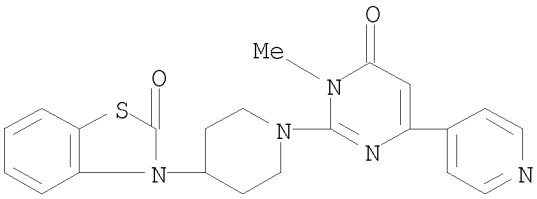
RN 769942-42-9 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(2-benzoxazolyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



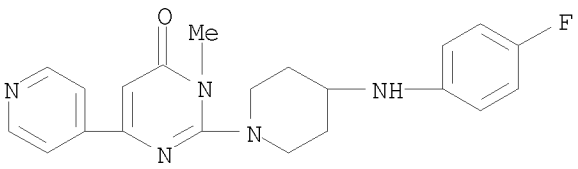
RN 769942-44-1 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(2-benzothiazolyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



RN 769942-46-3 CAPLUS
CN 2(3H)-Benzothiazolone, 3-[1-[1,6-dihydro-1-methyl-6-oxo-4-(4-pyridinyl)-2-pyrimidinyl]-4-piperidinyl]- (CA INDEX NAME)

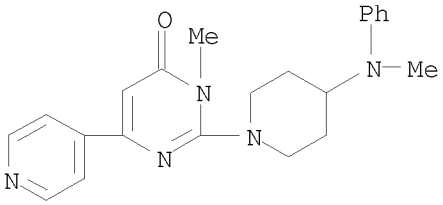


RN 769942-47-4 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-[(4-fluorophenyl)amino]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)

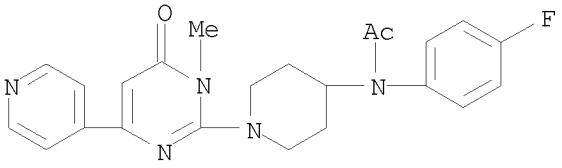


RN 769942-48-5 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-2-[4-(methylphenylamino)-1-piperidinyl]-6-(4-

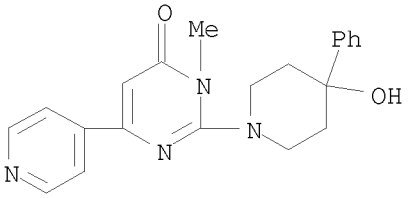
pyridinyl)- (CA INDEX NAME)



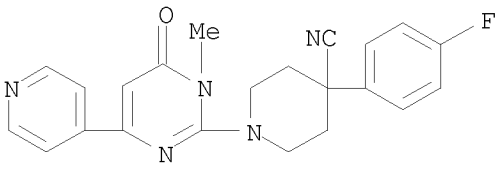
RN 769942-49-6 CAPLUS
CN Acetamide, N-[1-[1,6-dihydro-1-methyl-6-oxo-4-(4-pyridinyl)-2-pyrimidinyl]-4-piperidinyl]-N-(4-fluorophenyl)- (CA INDEX NAME)



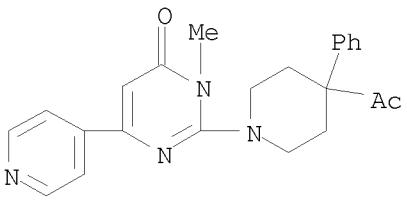
RN 769942-50-9 CAPLUS
CN 4(3H)-Pyrimidinone, 2-(4-hydroxy-4-phenyl-1-piperidinyl)-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



RN 769942-51-0 CAPLUS
CN 4-Piperidinecarbonitrile, 1-[1,6-dihydro-1-methyl-6-oxo-4-(4-pyridinyl)-2-pyrimidinyl]-4-(4-fluorophenyl)- (CA INDEX NAME)

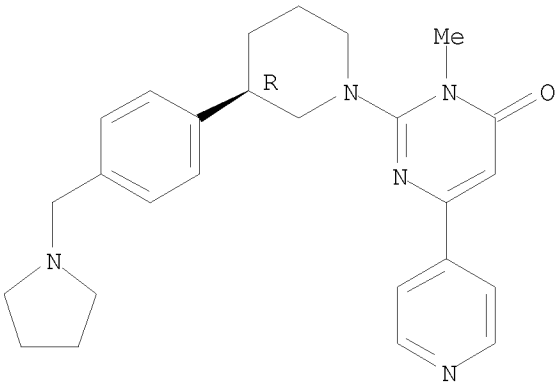


RN 769942-52-1 CAPLUS
CN 4(3H)-Pyrimidinone, 2-(4-acetyl-4-phenyl-1-piperidinyl)-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



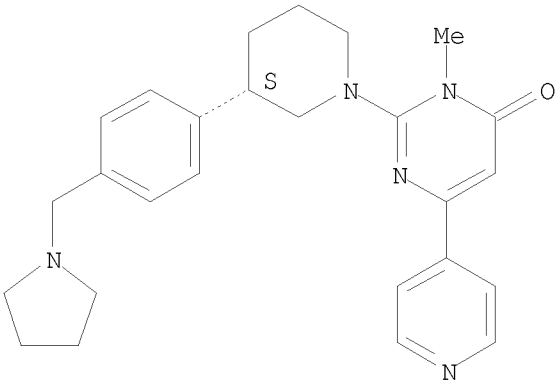
RN 769942-53-2 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-6-(4-pyridinyl)-2-[(3R)-3-[4-(1-pyrrolidinylmethyl)phenyl]-1-piperidinyl]- (CA INDEX NAME)

Absolute stereochemistry.



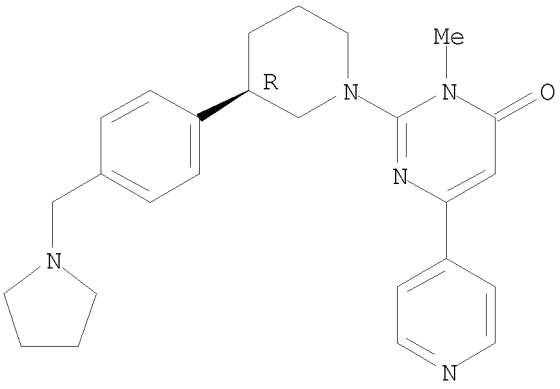
RN 769942-54-3 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-6-(4-pyridinyl)-2-[(3S)-3-[4-(1-pyrrolidinylmethyl)phenyl]-1-piperidinyl]- (CA INDEX NAME)

Absolute stereochemistry.



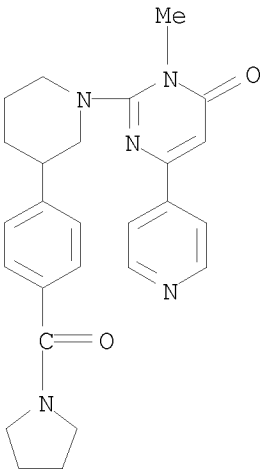
RN 769942-55-4 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-6-(4-pyridinyl)-2-[(3R)-3-[4-(1-pyrrolidinylmethyl)phenyl]-1-piperidinyl]-, hydrochloride (1:1) (CA INDEX NAME)

Absolute stereochemistry.



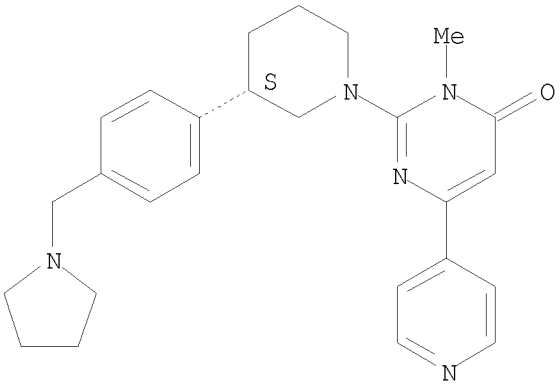
● HCl

RN 769942-56-5 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-6-(4-pyridinyl)-2-[3-[4-(1-pyrrolidinylcarbonyl)phenyl]-1-piperidinyl]- (CA INDEX NAME)



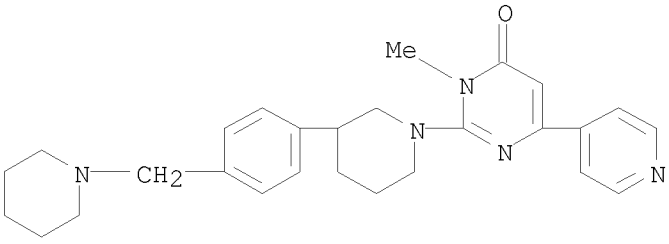
RN 769942-57-6 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-6-(4-pyridinyl)-2-[(3S)-3-[4-(1-pyrrolidinylmethyl)phenyl]-1-piperidinyl]-, hydrochloride (1:1) (CA INDEX NAME)

Absolute stereochemistry.

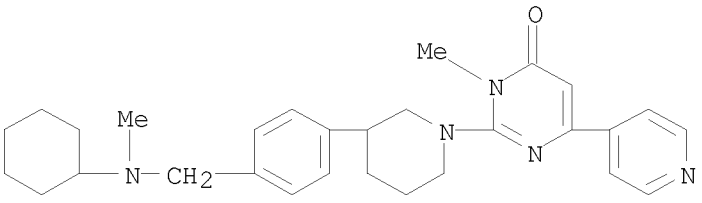


● HCl

RN 769942-58-7 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-2-[3-[4-(1-piperidinylmethyl)phenyl]-1-piperidinyl]-6-(4-pyridinyl)- (CA INDEX NAME)

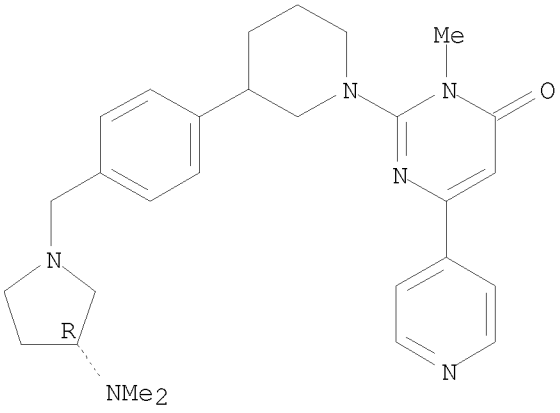


RN 769942-59-8 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-[4-[(cyclohexylmethylamino)methyl]phenyl]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



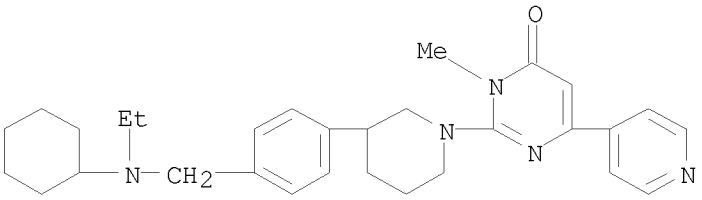
RN 769942-60-1 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-[4-[[(3R)-3-(dimethylamino)-1-pyrrolidinyl]methyl]phenyl]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)-, hydrochloride (1:3) (CA INDEX NAME)

Absolute stereochemistry.

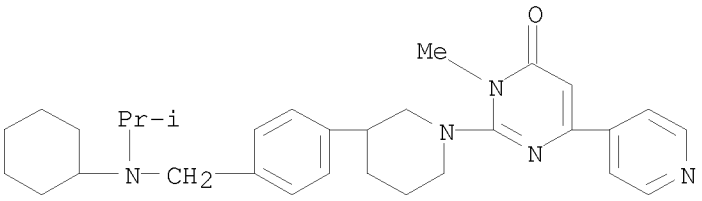


●3 HCl

RN 769942-61-2 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-[4-[(cyclohexylethylamino)methyl]phenyl]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)

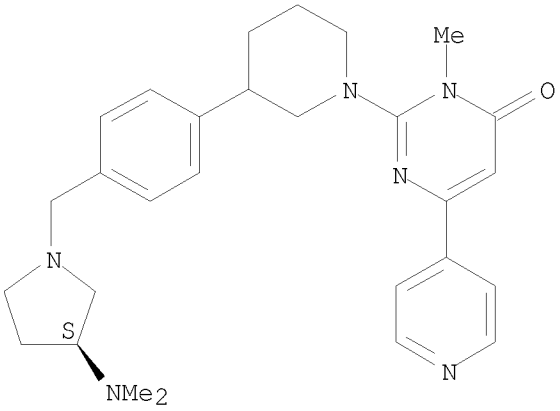


RN 769942-62-3 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-[4-[[cyclohexyl(1-methylethyl)amino]methyl]phenyl]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



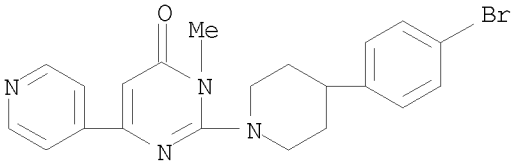
RN 769942-63-4 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-[4-[[(3S)-3-(dimethylamino)-1-pyrrolidinyl]methyl]phenyl]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)-, hydrochloride (1:3) (CA INDEX NAME)

Absolute stereochemistry.

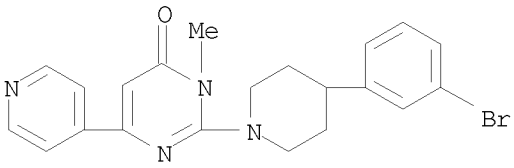


●3 HCl

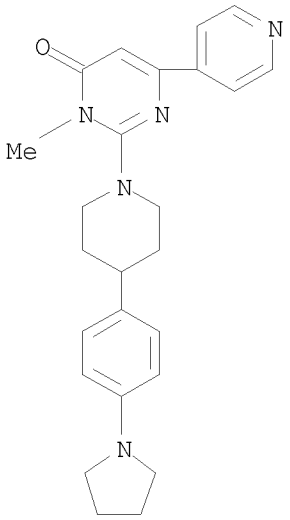
RN 769942-64-5 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(4-bromophenyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



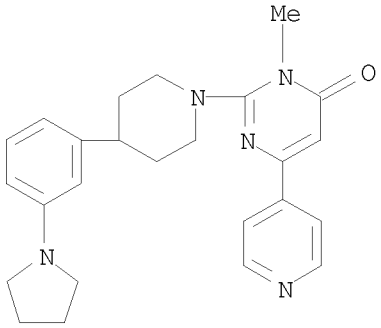
RN 769942-65-6 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(3-bromophenyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



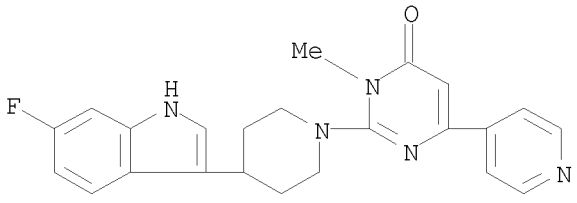
RN 769942-66-7 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-6-(4-pyridinyl)-2-[4-[4-(1-pyrrolidinyl)phenyl]-1-piperidinyl]- (CA INDEX NAME)



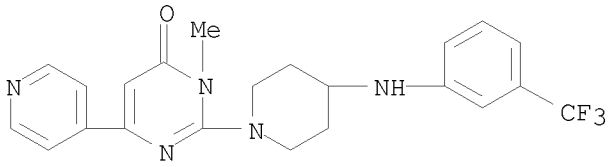
RN 769942-67-8 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-6-(4-pyridinyl)-2-[4-[3-(1-pyrrolidinyl)phenyl]-1-piperidinyl]- (CA INDEX NAME)



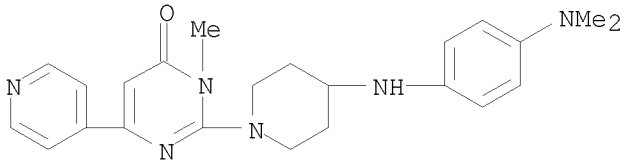
RN 769942-68-9 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(6-fluoro-1H-indol-3-yl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



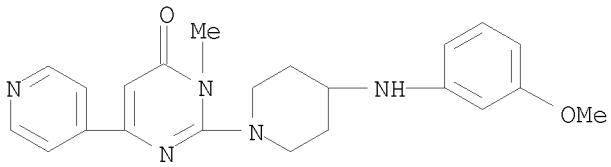
RN 769942-69-0 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-6-(4-pyridinyl)-2-[4-[[3-(trifluoromethyl)phenyl]amino]-1-piperidinyl]- (CA INDEX NAME)



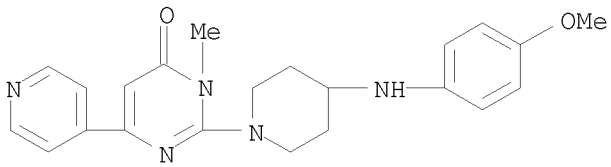
RN 769942-70-3 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-[[4-(dimethylamino)phenyl]amino]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



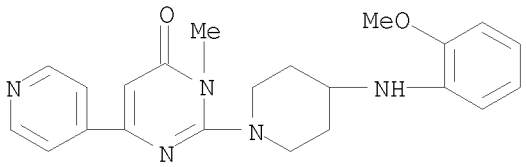
RN 769942-71-4 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-[(3-methoxyphenyl)amino]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



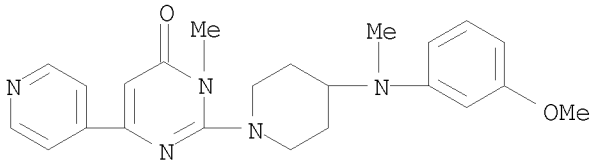
RN 769942-72-5 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-[(4-methoxyphenyl)amino]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



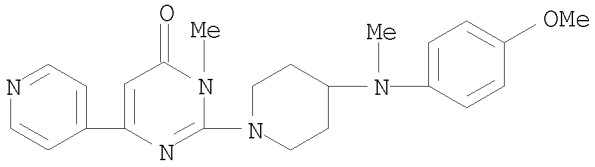
RN 769942-73-6 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-[(2-methoxyphenyl)amino]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



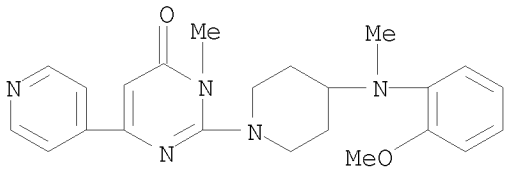
RN 769942-74-7 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-[(3-methoxyphenyl)methylamino]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



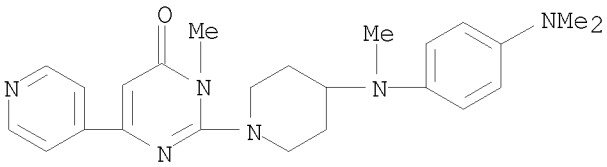
RN 769942-75-8 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-[(4-methoxyphenyl)methylamino]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



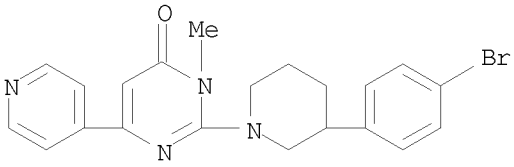
RN 769942-76-9 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-[(2-methoxyphenyl)methylamino]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



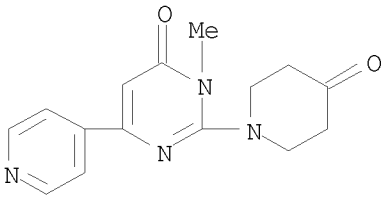
RN 769942-77-0 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-[[4-(dimethylamino)phenyl]methylamino]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



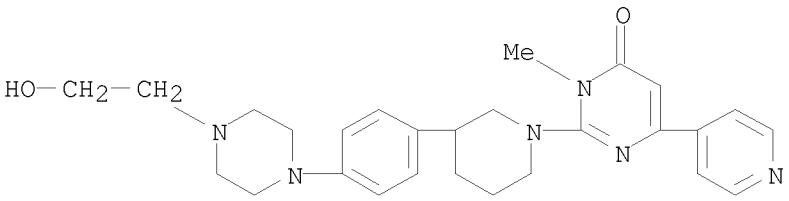
RN 769942-78-1 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-(4-bromophenyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



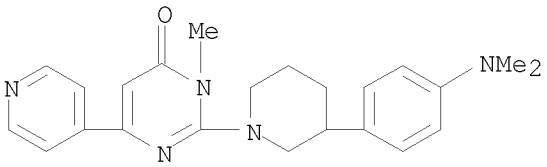
RN 769942-79-2 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-2-(4-oxo-1-piperidinyl)-6-(4-pyridinyl)- (CA INDEX NAME)



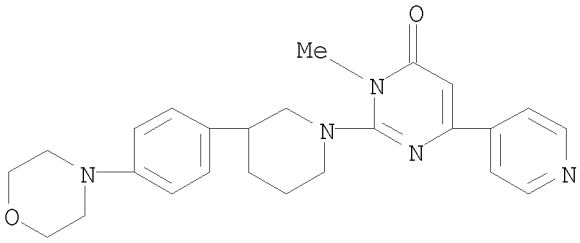
RN 769942-80-5 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-[4-[4-(2-hydroxyethyl)-1-piperazinyl]phenyl]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



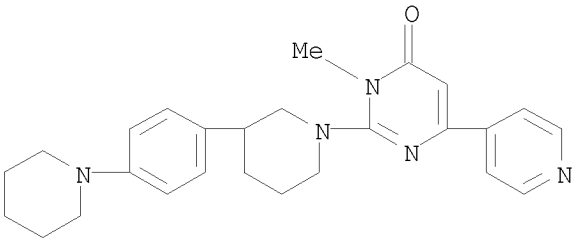
RN 769942-81-6 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-[4-(dimethylamino)phenyl]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



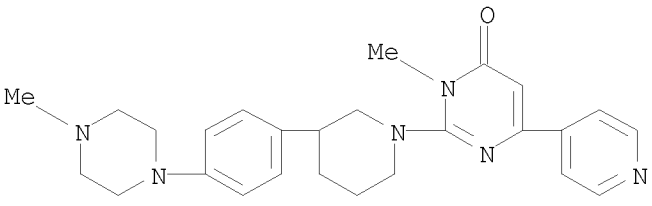
RN 769942-82-7 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-2-[3-[4-(4-morpholinyl)phenyl]-1-piperidinyl]-6-(4-pyridinyl)- (CA INDEX NAME)



RN 769942-83-8 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-2-[3-[4-(1-piperidinyl)phenyl]-1-piperidinyl]-6-(4-pyridinyl)- (CA INDEX NAME)

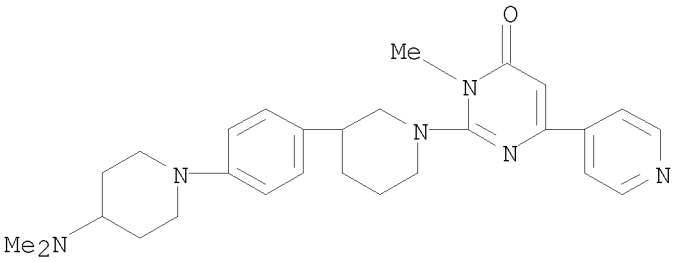


RN 769942-84-9 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-2-[3-[4-(4-methyl-1-piperazinyl)phenyl]-1-piperidinyl]-6-(4-pyridinyl)- (CA INDEX NAME)

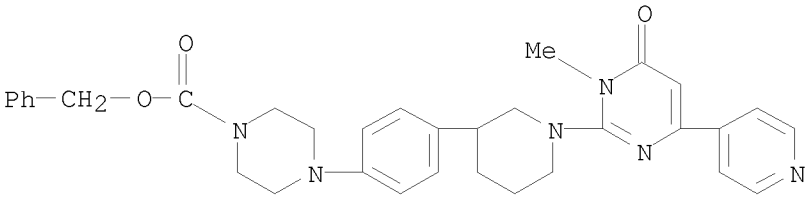


RN 769942-85-0 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-[4-[4-(dimethylamino)-1-piperidinyl]phenyl]-1-

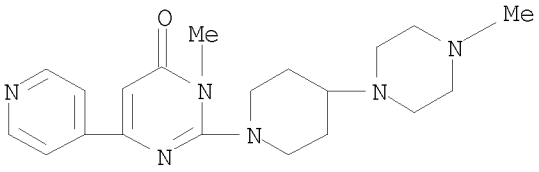
piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



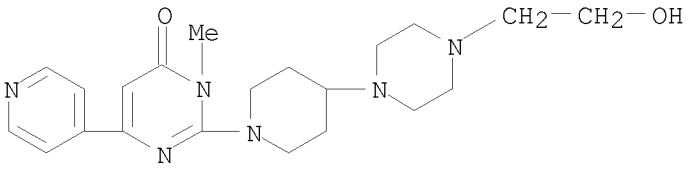
RN 769942-86-1 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[4-[1-[1,6-dihydro-1-methyl-6-oxo-4-(4-pyridinyl)-2-pyrimidinyl]-3-piperidinyl]phenyl]-, phenylmethyl ester (CA INDEX NAME)



RN 769942-87-2 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-2-[4-(4-methyl-1-piperazinyl)-1-piperidinyl]-6-(4-pyridinyl)- (CA INDEX NAME)

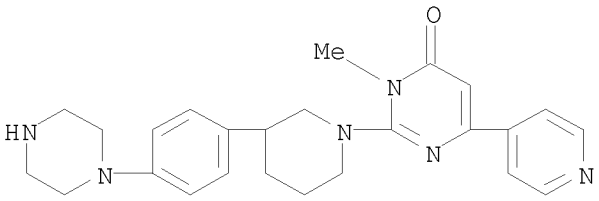


RN 769942-88-3 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-[4-(2-hydroxyethyl)-1-piperazinyl]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)

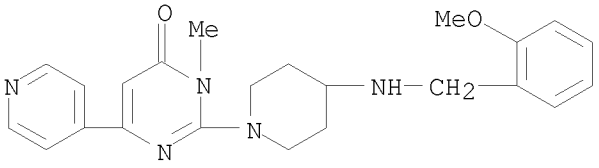


RN 769942-89-4 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-2-[3-[4-(1-piperazinyl)phenyl]-1-piperidinyl]-

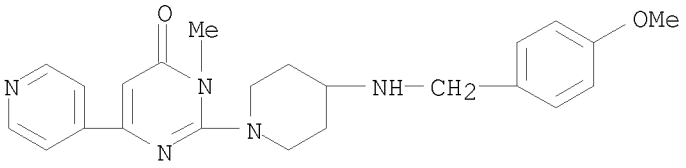
6-(4-pyridinyl)- (CA INDEX NAME)



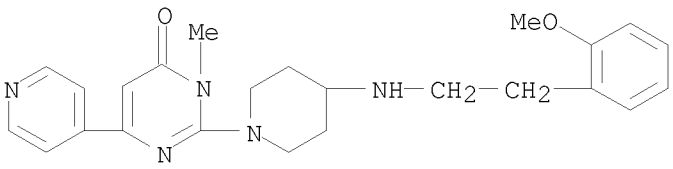
RN 769942-90-7 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-[[(2-methoxyphenyl)methyl]amino]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



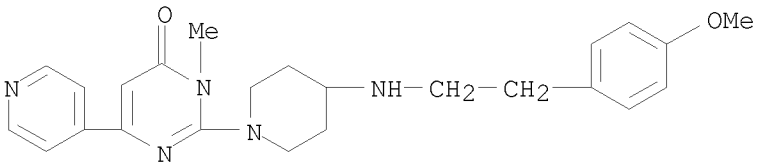
RN 769942-91-8 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-[[(4-methoxyphenyl)methyl]amino]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



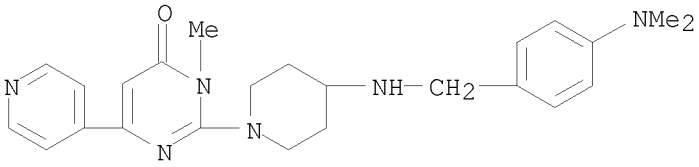
RN 769942-92-9 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-[[2-(2-methoxyphenyl)ethyl]amino]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



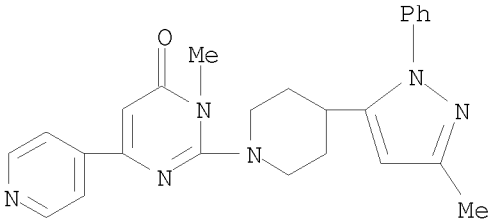
RN 769942-93-0 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-[[2-(4-methoxyphenyl)ethyl]amino]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



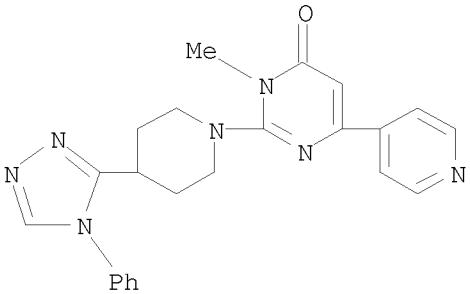
RN 769942-94-1 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-[[[4-(dimethylamino)phenyl]methyl]amino]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



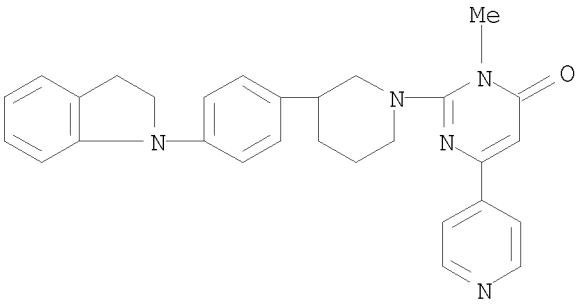
RN 769942-95-2 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-2-[4-(3-methyl-1-phenyl-1H-pyrazol-5-yl)-1-piperidinyl]-6-(4-pyridinyl)- (CA INDEX NAME)



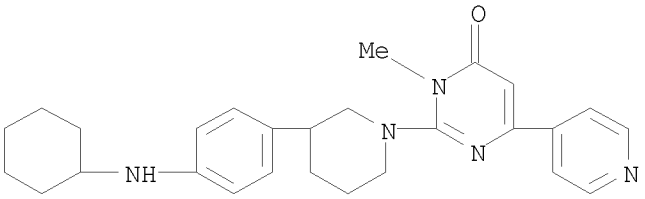
RN 769942-96-3 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-2-[4-(4-phenyl-4H-1,2,4-triazol-3-yl)-1-piperidinyl]-6-(4-pyridinyl)- (CA INDEX NAME)



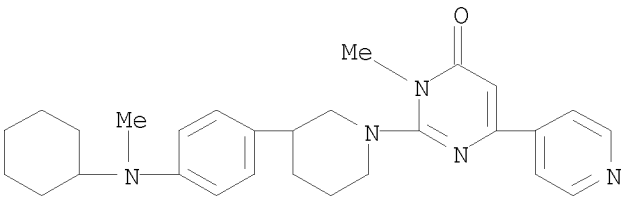
RN 769942-97-4 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-[4-(2,3-dihydro-1H-indol-1-yl)phenyl]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



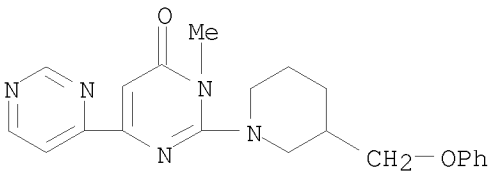
RN 769942-98-5 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-[4-(cyclohexylamino)phenyl]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



RN 769942-99-6 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-[4-(cyclohexylmethylamino)phenyl]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)

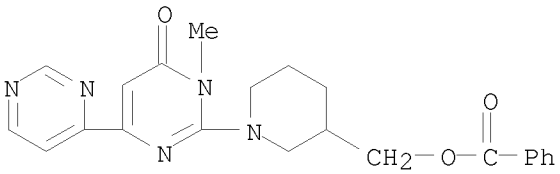


RN 769943-97-7 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 1-methyl-2-[3-(phenoxymethyl)-1-piperidinyl]- (CA INDEX NAME)

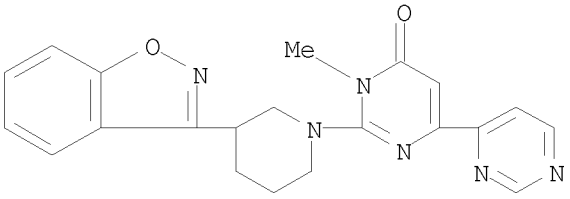


RN 769943-98-8 CAPLUS

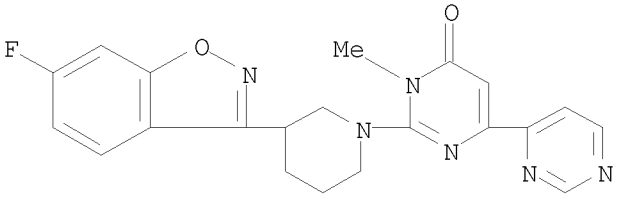
CN [4,4'-Bipyrimidin]-6-one, 2-[3-[(benzoyloxy)methyl]-1-piperidinyl]-1,6-dihydro-1-methyl- (CA INDEX NAME)



RN 769943-99-9 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3-(1,2-benzisoxazol-3-yl)-1-piperidinyl]-1-methyl- (CA INDEX NAME)

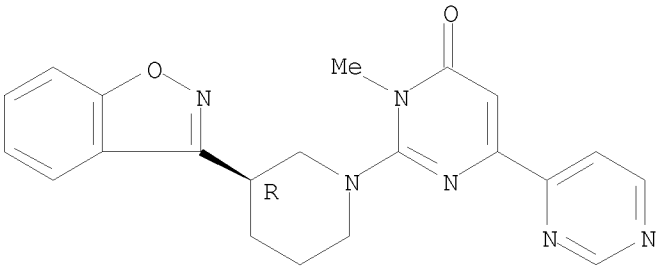


RN 769944-00-5 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3-(6-fluoro-1,2-benzisoxazol-3-yl)-1-piperidinyl]-1-methyl- (CA INDEX NAME)



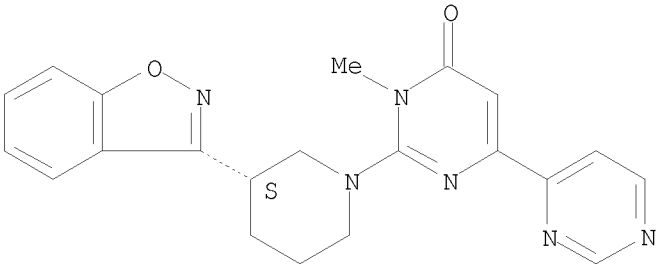
RN 769944-01-6 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[(3R)-3-(1,2-benzisoxazol-3-yl)-1-piperidinyl]-1-methyl- (CA INDEX NAME)

Absolute stereochemistry.

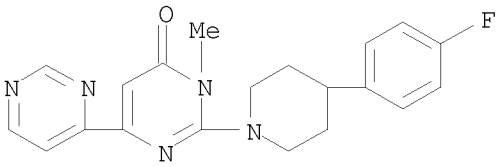


RN 769944-02-7 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[(3S)-3-(1,2-benzisoxazol-3-yl)-1-piperidinyl]-1-methyl- (CA INDEX NAME)

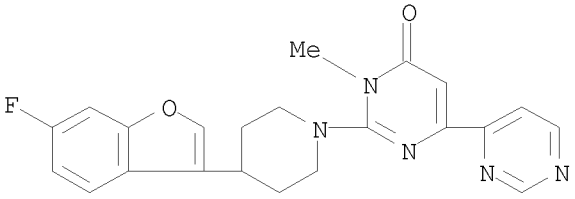
Absolute stereochemistry.



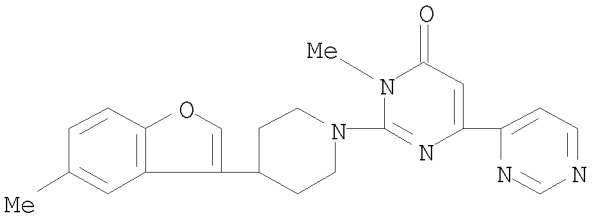
RN 769944-03-8 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[4-(4-fluorophenyl)-1-piperidinyl]-1-methyl- (CA INDEX NAME)



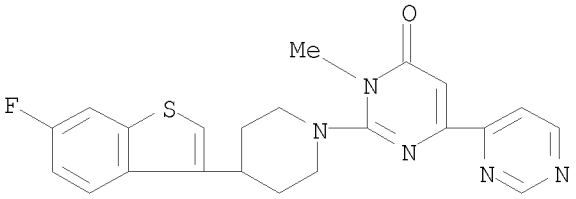
RN 769944-04-9 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[4-(6-fluoro-3-benzofuranyl)-1-piperidinyl]-1-methyl- (CA INDEX NAME)



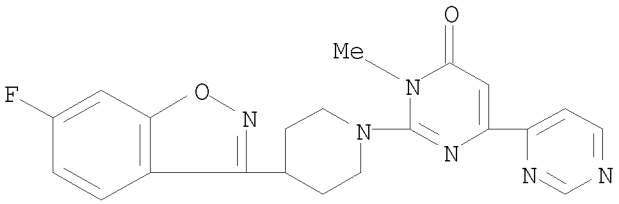
RN 769944-05-0 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 1-methyl-2-[4-(5-methyl-3-benzofuranyl)-1-piperidinyl]- (CA INDEX NAME)



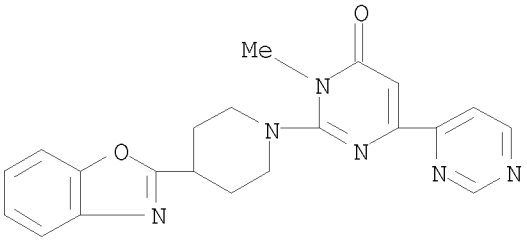
RN 769944-06-1 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[4-(6-fluorobenzo[b]thien-3-yl)-1-piperidinyl]-1-methyl- (CA INDEX NAME)



RN 769944-07-2 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[4-(6-fluoro-1,2-benzisoxazol-3-yl)-1-piperidinyl]-1-methyl- (CA INDEX NAME)

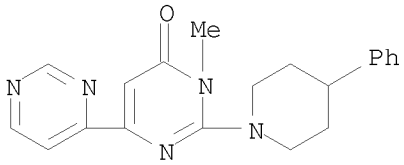


RN 769944-08-3 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[4-(2-benzoxazolyl)-1-piperidinyl]-1-methyl- (CA INDEX NAME)

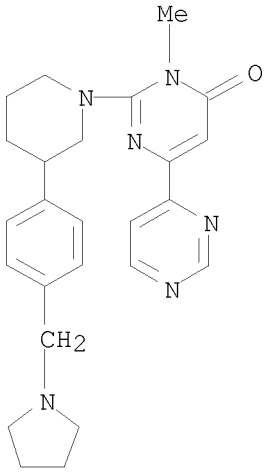


RN 769944-09-4 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 1-methyl-2-(4-phenyl-1-piperidinyl)- (CA

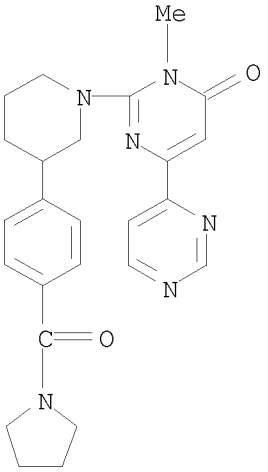
INDEX NAME)



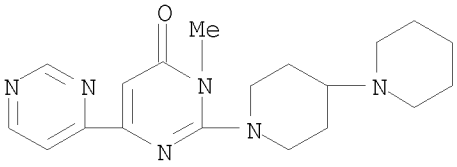
RN 769944-10-7 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 1-methyl-2-[3-[4-(1-pyrrolidinylmethyl)phenyl]-1-piperidinyl]- (CA INDEX NAME)



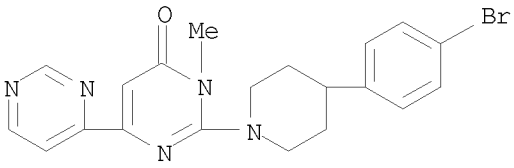
RN 769944-11-8 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 1-methyl-2-[3-[4-(1-pyrrolidinylcarbonyl)phenyl]-1-piperidinyl]- (CA INDEX NAME)



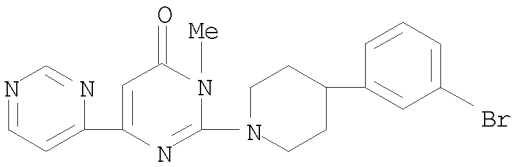
RN 769944-12-9 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[1,4'-bipiperidin]-1'-yl-1-methyl- (CA INDEX NAME)



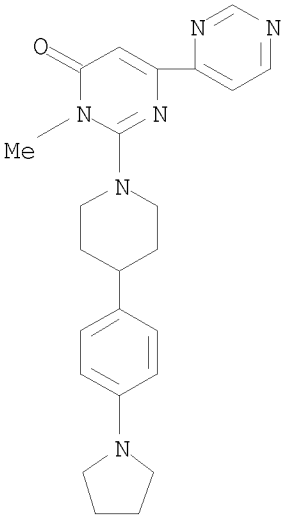
RN 769944-13-0 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[4-(4-bromophenyl)-1-piperidinyl]-1-methyl- (CA INDEX NAME)



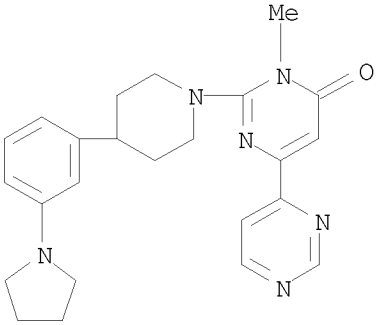
RN 769944-14-1 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[4-(3-bromophenyl)-1-piperidinyl]-1-methyl- (CA INDEX NAME)



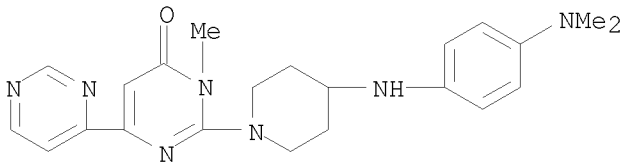
RN 769944-15-2 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 1-methyl-2-[4-[4-(1-pyrrolidinyl)phenyl]-1-piperidinyl]- (CA INDEX NAME)



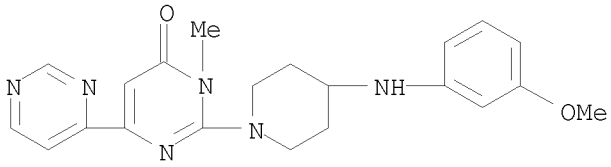
RN 769944-16-3 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 1-methyl-2-[4-[3-(1-pyrrolidinyl)phenyl]-1-piperidinyl]- (CA INDEX NAME)



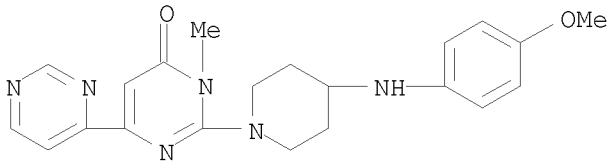
RN 769944-17-4 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[4-[[4-(dimethylamino)phenyl]amino]-1-piperidinyl]-1-methyl- (CA INDEX NAME)



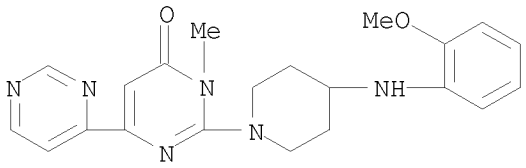
RN 769944-18-5 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[4-[(3-methoxyphenyl)amino]-1-piperidinyl]-1-methyl- (CA INDEX NAME)



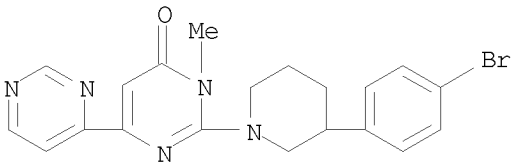
RN 769944-19-6 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[4-[(4-methoxyphenyl)amino]-1-piperidinyl]-1-methyl- (CA INDEX NAME)



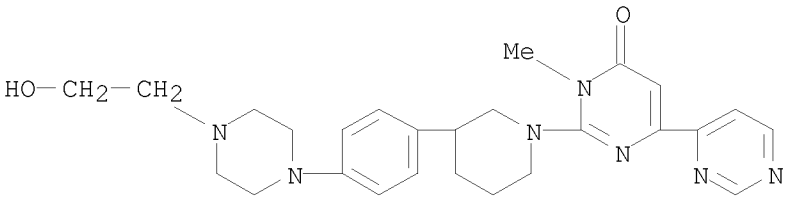
RN 769944-20-9 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[4-[(2-methoxyphenyl)amino]-1-piperidinyl]-1-methyl- (CA INDEX NAME)



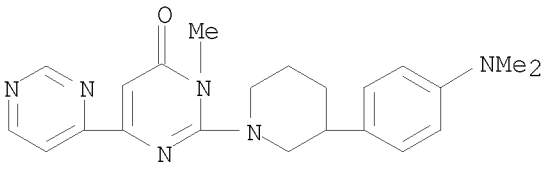
RN 769944-21-0 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3-(4-bromophenyl)-1-piperidinyl]-1-methyl- (CA INDEX NAME)



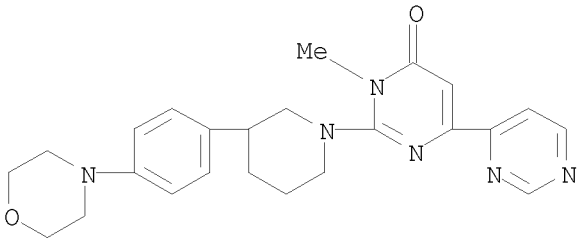
RN 769944-22-1 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3-[4-[4-(2-hydroxyethyl)-1-piperazinyl]phenyl]-1-piperidinyl]-1-methyl- (CA INDEX NAME)



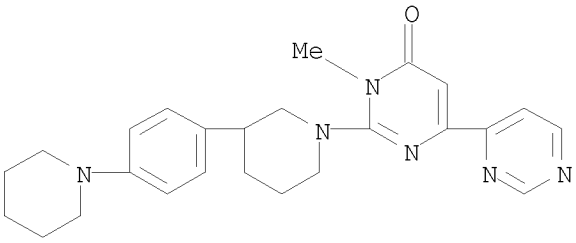
RN 769944-23-2 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3-[4-(dimethylamino)phenyl]-1-piperidinyl]-1-methyl- (CA INDEX NAME)



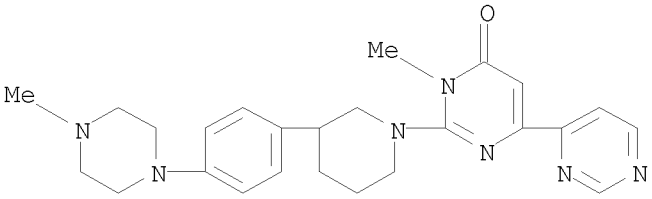
RN 769944-24-3 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 1-methyl-2-[3-[4-(4-morpholinyl)phenyl]-1-piperidinyl]- (CA INDEX NAME)



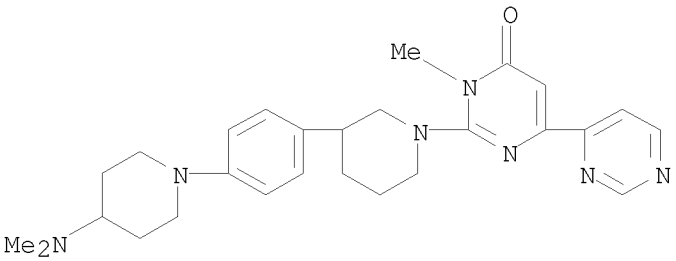
RN 769944-25-4 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 1-methyl-2-[3-[4-(1-piperidinyl)phenyl]-1-piperidinyl]- (CA INDEX NAME)



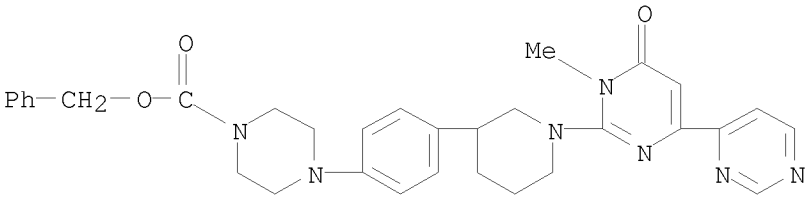
RN 769944-26-5 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 1-methyl-2-[3-[4-(4-methyl-1-piperazinyl)phenyl]-1-piperidinyl]- (CA INDEX NAME)



RN 769944-27-6 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3-[4-[4-(dimethylamino)-1-piperidinyl]phenyl]-1-piperidinyl]-1-methyl- (CA INDEX NAME)

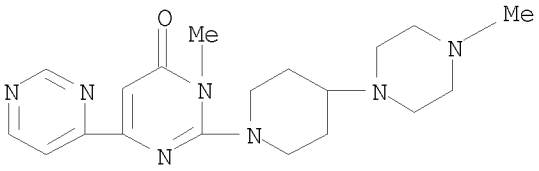


RN 769944-28-7 CAPLUS
CN 1-Piperazinecarboxylic acid, 4-[4-[1-(1,6-dihydro-1-methyl-6-oxo[4,4'-bipyrimidin]-2-yl)-3-piperidinyl]phenyl]-, phenylmethyl ester (CA INDEX NAME)

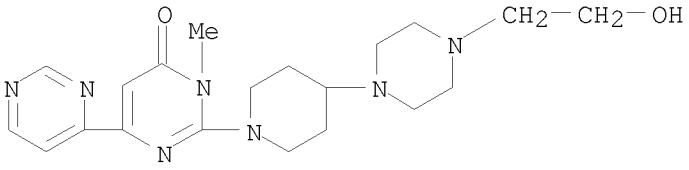


RN 769944-29-8 CAPLUS

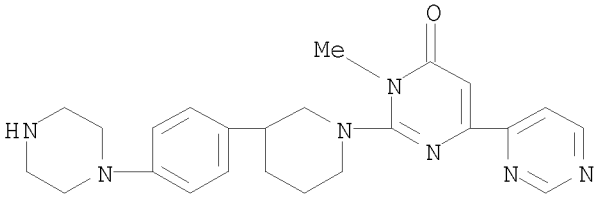
CN [4,4'-Bipyrimidin]-6(1H)-one, 1-methyl-2-[4-(4-methyl-1-piperazinyl)-1-piperidinyl]- (CA INDEX NAME)



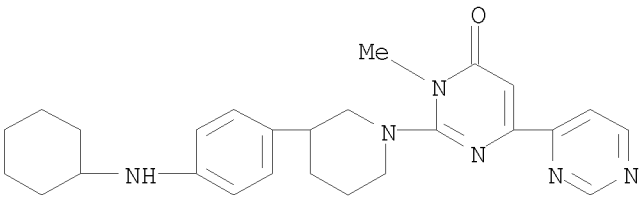
RN 769944-30-1 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[4-[4-(2-hydroxyethyl)-1-piperazinyl]-1-piperidinyl]-1-methyl- (CA INDEX NAME)



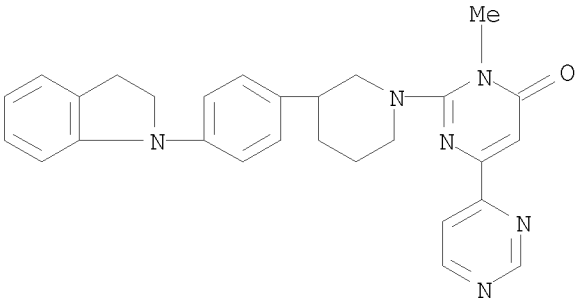
RN 769944-31-2 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 1-methyl-2-[3-[4-(1-piperazinyl)phenyl]-1-piperidinyl]- (CA INDEX NAME)



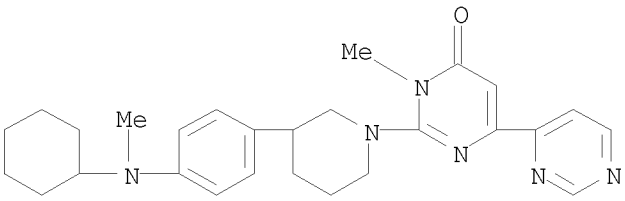
RN 769944-32-3 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3-[4-(cyclohexylamino)phenyl]-1-piperidinyl]-1-methyl- (CA INDEX NAME)



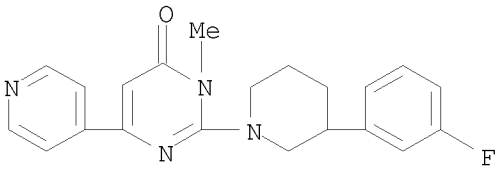
RN 769944-33-4 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3-[4-(2,3-dihydro-1H-indol-1-yl)phenyl]-1-piperidinyl]-1-methyl- (CA INDEX NAME)



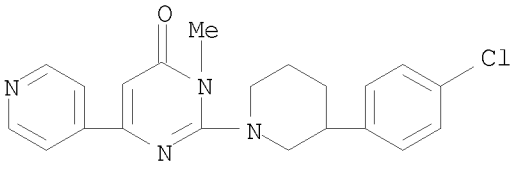
RN 769944-34-5 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3-[4-(cyclohexylmethylamino)phenyl]-1-piperidinyl]-1-methyl- (CA INDEX NAME)



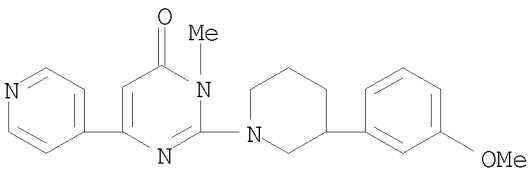
RN 769945-17-7 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-(3-fluorophenyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



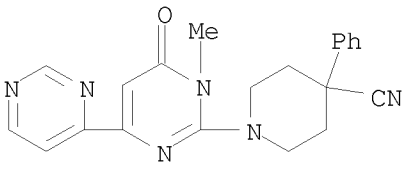
RN 769945-18-8 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-(4-chlorophenyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



RN 769945-19-9 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-(3-methoxyphenyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



RN 769945-34-8 CAPLUS
CN 4-Piperidinecarbonitrile, 1-(1,6-dihydro-1-methyl-6-oxo[4,4'-bipyrimidin]-2-yl)-4-phenyl- (CA INDEX NAME)



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2004:534195 CAPLUS
DN 141:71559
TI Preparation of pyridinyl-4-pyrimidone derivatives as tau protein kinase 1 inhibitors for the treatment of neurodegenerative diseases
IN Usui, Yoshihiro; Okuyama, Masahiro; Hanano, Tokushi
PA Mitsubishi Pharma Corporation, Japan; Sanofi-Synthelabo
SO PCT Int. Appl., 55 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

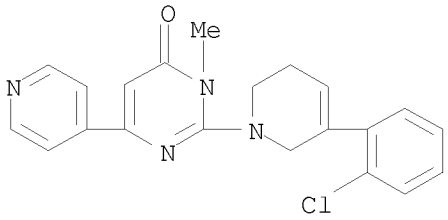
Applicant's

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004055007	A1	20040701	WO 2003-JP15968	20031212
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2510170	A1	20040701	CA 2003-2510170	20031212
	AU 2003285777	A1	20040709	AU 2003-285777	20031212
	EP 1572681	A1	20050914	EP 2003-778893	20031212
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	BR 2003016785	A	20051025	BR 2003-16785	20031212
	CN 1726209	A	20060125	CN 2003-80106258	20031212
	JP 2006510684	T	20060330	JP 2004-560630	20031212
	ZA 2005005258	A	20060927	ZA 2005-5258	20031212
	US 20070142409	A1	20070621	US 2003-538766	20031212
	NZ 541074	A	20080430	NZ 2003-541074	20031212
	MX 2005006394	A	20070416	MX 2005-6394	20050615
	IN 2005CN01556	A	20070907	IN 2005-CN1556	20050708
	NO 2005003449	A	20050715	NO 2005-3449	20050715
PRAI	JP 2002-383300	A	20021216		
	JP 2002-383301	A	20021216		
	WO 2003-JP15968	W	20031212		

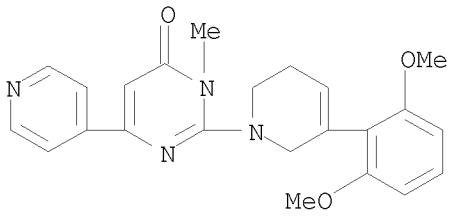
OS MARPAT 141:71559
AB Pyrimidone derivs. of formula I [S = CH, N; R1 = alkyl; R2 = alkyl, (substituted) Ph, (substituted) naphthalenyl, (substituted) indanyl (substituted) tetrahydronaphthalenyl, (substituted) heterocyclyl] are prepared as tau protein kinase 1 inhibitors. Thus, II was prepared in several steps. Pharmaceutical compns. containing II are described.
IT 712343-67-4P 712343-68-5P 712343-69-6P
712343-70-9P 712343-71-0P 712343-72-1P
712343-73-2P 712343-74-3P 712343-75-4P
712343-76-5P 712343-77-6P 712343-78-7P
712343-79-8P 712343-80-1P 712343-81-2P
712343-82-3P 712343-83-4P 712343-84-5P
712343-85-6P 712343-86-7P 712343-87-8P
712343-88-9P 712343-89-0P 712343-90-3P
712343-91-4P 712343-92-5P 712343-93-6P

712343-94-7P 712343-95-8P 712343-96-9P
712343-97-0P 712343-98-1P 712343-99-2P
712344-03-1P 712344-04-2P 712344-05-3P
712344-06-4P 712344-07-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of pyridinyl pyrimidone derivs. as tau protein kinase 1 inhibitors)

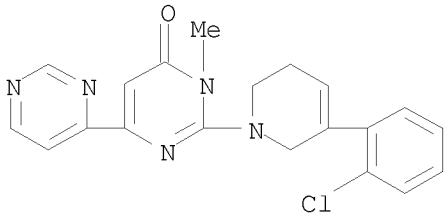
RN 712343-67-4 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-(2-chlorophenyl)-5,6-dihydro-1(2H)-pyridinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



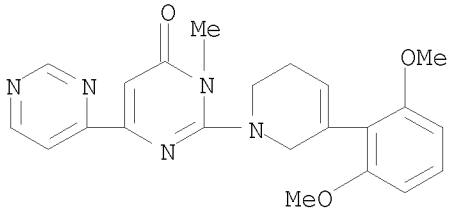
RN 712343-68-5 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-(2,6-dimethoxyphenyl)-5,6-dihydro-1(2H)-pyridinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



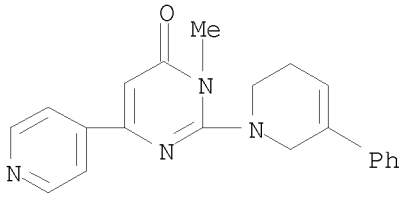
RN 712343-69-6 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3-(2-chlorophenyl)-5,6-dihydro-1(2H)-pyridinyl]-1-methyl- (CA INDEX NAME)



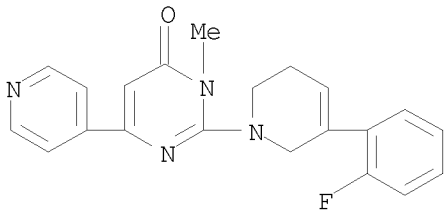
RN 712343-70-9 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3-(2,6-dimethoxyphenyl)-5,6-dihydro-1(2H)-pyridinyl]-1-methyl- (CA INDEX NAME)



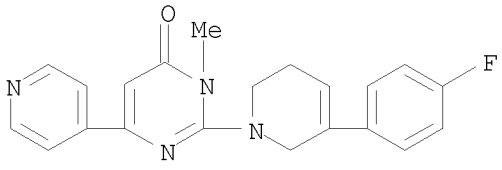
RN 712343-71-0 CAPLUS
CN 4(3H)-Pyrimidinone, 2-(3,6-dihydro-5-phenyl-1(2H)-pyridinyl)-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



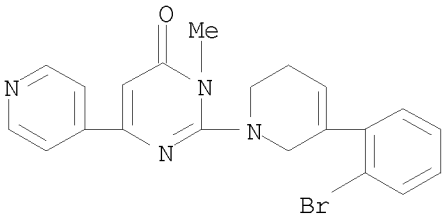
RN 712343-72-1 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-(2-fluorophenyl)-5,6-dihydro-1(2H)-pyridinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



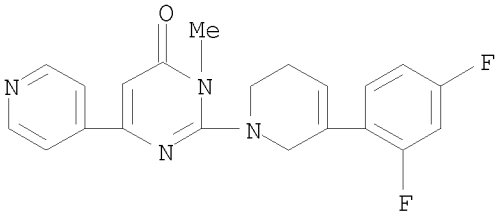
RN 712343-73-2 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-(4-fluorophenyl)-5,6-dihydro-1(2H)-pyridinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



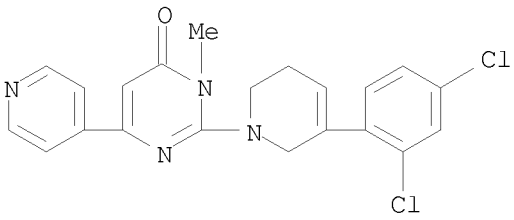
RN 712343-74-3 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-(2-bromophenyl)-5,6-dihydro-1(2H)-pyridinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



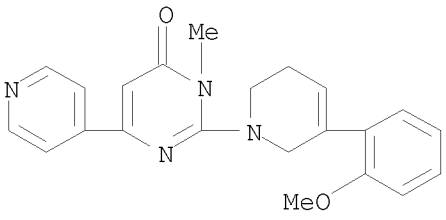
RN 712343-75-4 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-(2,4-difluorophenyl)-5,6-dihydro-1(2H)-pyridinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



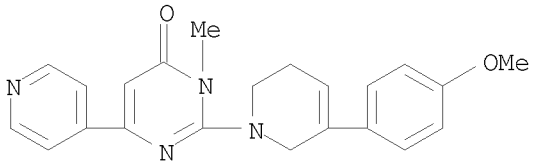
RN 712343-76-5 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-(2,4-dichlorophenyl)-5,6-dihydro-1(2H)-pyridinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



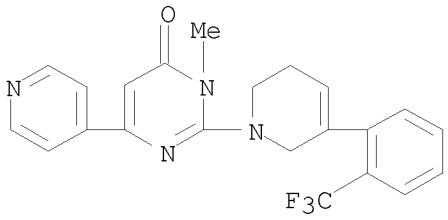
RN 712343-77-6 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3,6-dihydro-5-(2-methoxyphenyl)-1(2H)-pyridinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



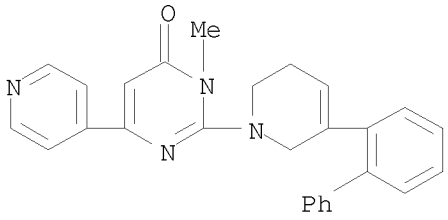
RN 712343-78-7 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3,6-dihydro-5-(4-methoxyphenyl)-1(2H)-pyridinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



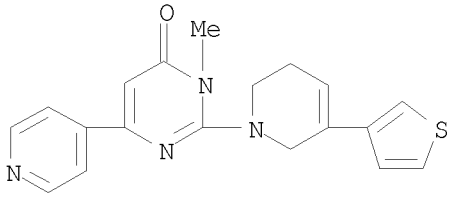
RN 712343-79-8 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3,6-dihydro-5-[2-(trifluoromethyl)phenyl]-1(2H)-pyridinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



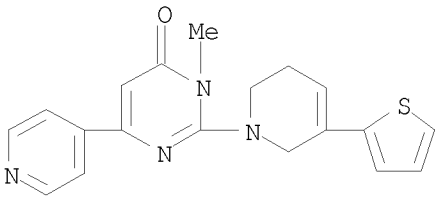
RN 712343-80-1 CAPLUS
CN 4(3H)-Pyrimidinone, 2-(3-[1,1'-biphenyl]-2-yl-5,6-dihydro-1(2H)-pyridinyl)-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



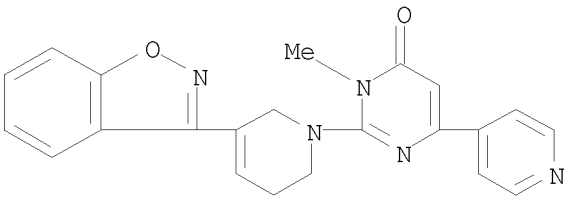
RN 712343-81-2 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3,6-dihydro-5-(3-thienyl)-1(2H)-pyridinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



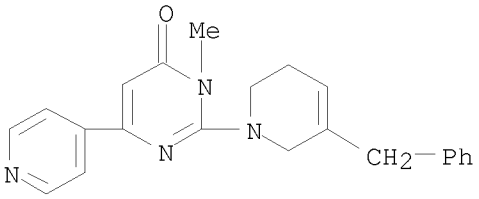
RN 712343-82-3 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3,6-dihydro-5-(2-thienyl)-1(2H)-pyridinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



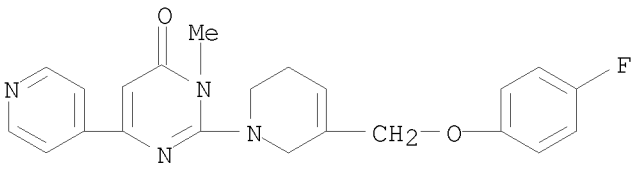
RN 712343-83-4 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-(1,2-benzisoxazol-3-yl)-5,6-dihydro-1(2H)-pyridinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



RN 712343-84-5 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3,6-dihydro-5-(phenylmethyl)-1(2H)-pyridinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)

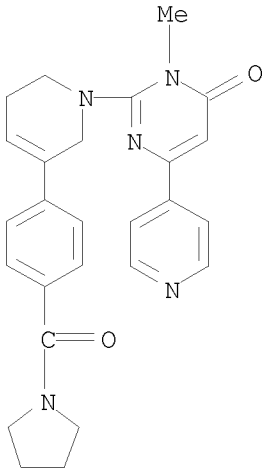


RN 712343-85-6 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-[(4-fluorophenoxy)methyl]-5,6-dihydro-1(2H)-pyridinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)

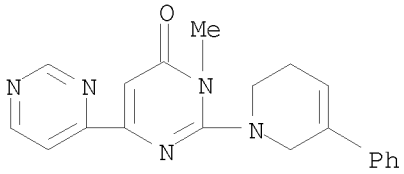


RN 712343-86-7 CAPLUS
CN Pyrrolidine, 1-[4-[1-[1,6-dihydro-1-methyl-6-oxo-4-(4-pyridinyl)-2-

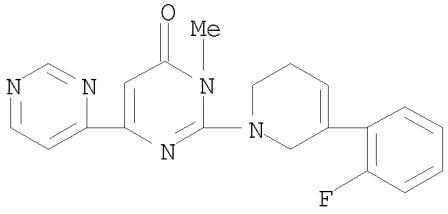
pyrimidinyl]-1,2,5,6-tetrahydro-3-pyridinyl]benzoyl]- (9CI) (CA INDEX NAME)



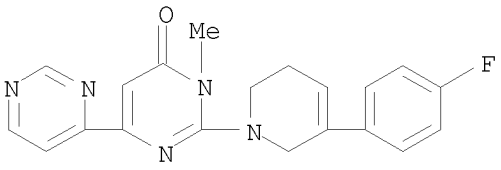
RN 712343-87-8 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-(3,6-dihydro-5-phenyl-1(2H)-pyridinyl)-1-methyl- (CA INDEX NAME)



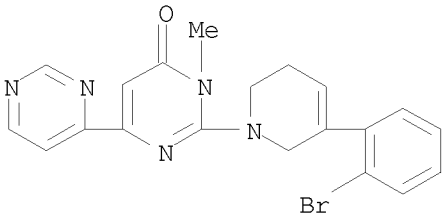
RN 712343-88-9 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3-(2-fluorophenyl)-5,6-dihydro-1(2H)-pyridinyl]-1-methyl- (CA INDEX NAME)



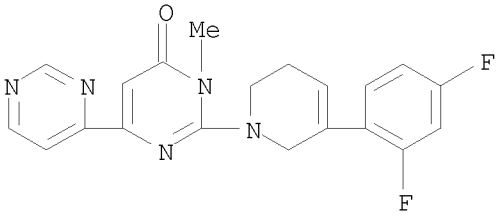
RN 712343-89-0 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3-(4-fluorophenyl)-5,6-dihydro-1(2H)-pyridinyl]-1-methyl- (CA INDEX NAME)



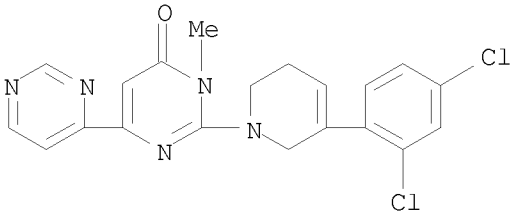
RN 712343-90-3 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3-(2-bromophenyl)-5,6-dihydro-1(2H)-pyridinyl]-1-methyl- (CA INDEX NAME)



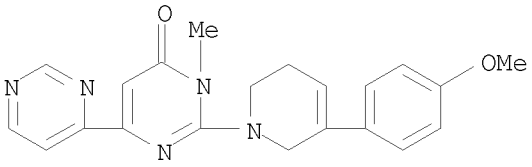
RN 712343-91-4 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3-(2,4-difluorophenyl)-5,6-dihydro-1(2H)-pyridinyl]-1-methyl- (CA INDEX NAME)



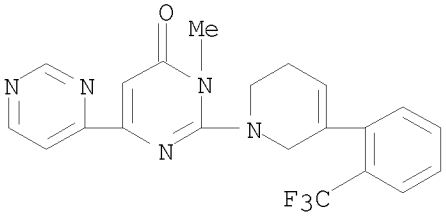
RN 712343-92-5 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3-(2,4-dichlorophenyl)-5,6-dihydro-1(2H)-pyridinyl]-1-methyl- (CA INDEX NAME)



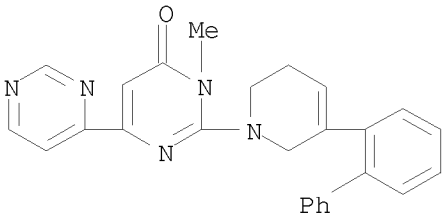
RN 712343-93-6 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3,6-dihydro-5-(4-methoxyphenyl)-1(2H)-pyridinyl]-1-methyl- (CA INDEX NAME)



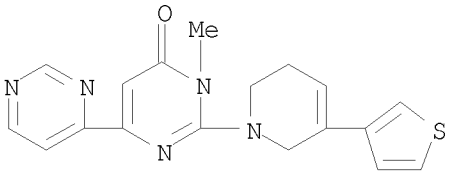
RN 712343-94-7 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3,6-dihydro-5-[2-(trifluoromethyl)phenyl]-1(2H)-pyridinyl]-1-methyl- (CA INDEX NAME)



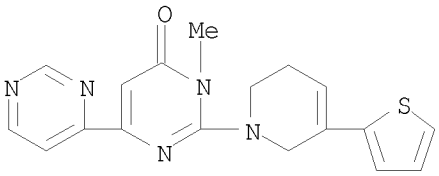
RN 712343-95-8 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-(3-[1,1'-biphenyl]-2-yl-5,6-dihydro-1(2H)-pyridinyl)-1-methyl- (CA INDEX NAME)



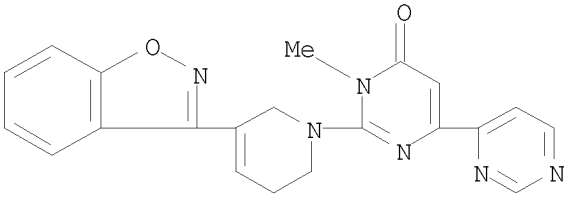
RN 712343-96-9 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3,6-dihydro-5-(3-thienyl)-1(2H)-pyridinyl]-1-methyl- (CA INDEX NAME)



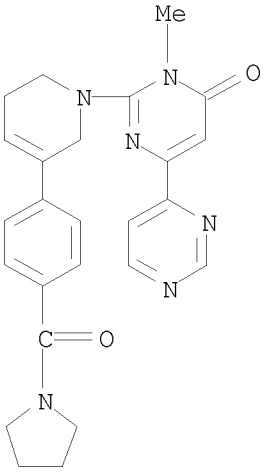
RN 712343-97-0 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3,6-dihydro-5-(2-thienyl)-1(2H)-pyridinyl]-1-methyl- (CA INDEX NAME)



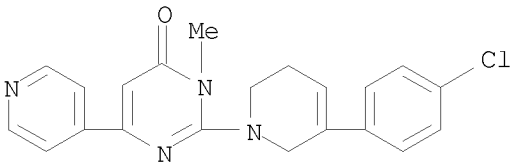
RN 712343-98-1 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3-(1,2-benzisoxazol-3-yl)-5,6-dihydro-1(2H)-pyridinyl]-1-methyl- (CA INDEX NAME)



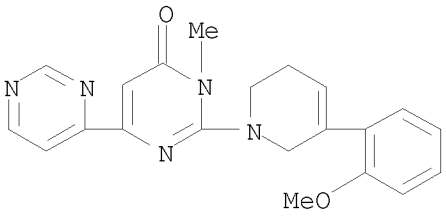
RN 712343-99-2 CAPLUS
CN Pyrrolidine, 1-[4-[1-(1,6-dihydro-1-methyl-6-oxo[4,4'-bipyrimidin]-2-yl)-1,2,5,6-tetrahydro-3-pyridinyl]benzoyl]- (9CI) (CA INDEX NAME)



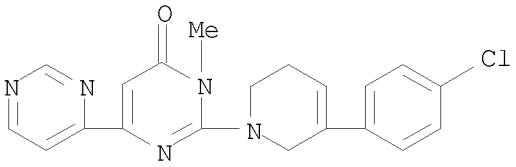
RN 712344-03-1 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-(4-chlorophenyl)-5,6-dihydro-1(2H)-pyridinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



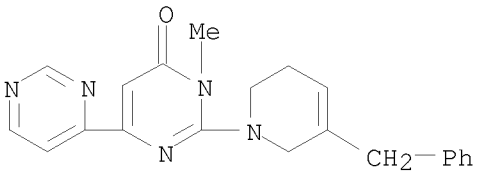
RN 712344-04-2 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3,6-dihydro-5-(2-methoxyphenyl)-1(2H)-pyridinyl]-1-methyl- (CA INDEX NAME)



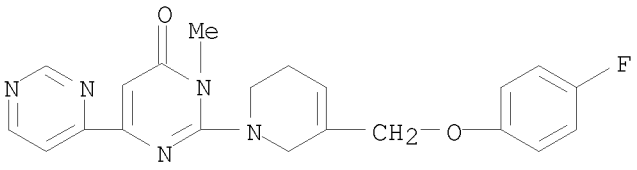
RN 712344-05-3 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3-(4-chlorophenyl)-5,6-dihydro-1(2H)-pyridinyl]-1-methyl- (CA INDEX NAME)



RN 712344-06-4 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3,6-dihydro-5-(phenylmethyl)-1(2H)-pyridinyl]-1-methyl- (CA INDEX NAME)



RN 712344-07-5 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3-[(4-fluorophenoxy)methyl]-5,6-dihydro-1(2H)-pyridinyl]-1-methyl- (CA INDEX NAME)



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

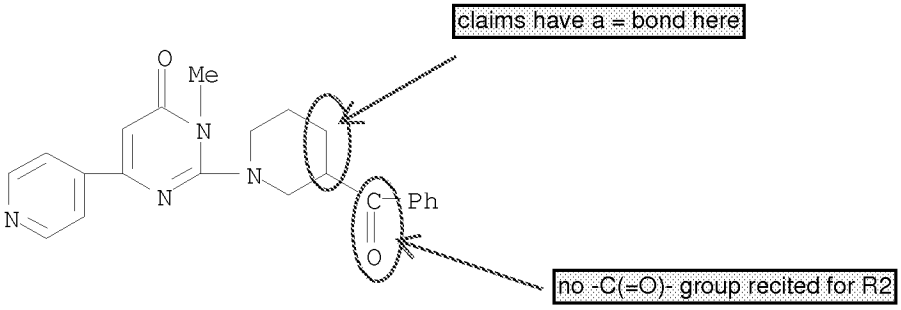
L4 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2003:356440 CAPLUS
DN 138:368904
TI Preparation of 3-substituted 4-pyrimidones as tau protein kinase 1 inhibitors
IN Uehara, Fumiaki; Aritomo, Keiichi; Shoda, Aya; Hiki, Shinsuke; Okuyama, Masahiro; Usui, Yoshihiro; Ooizumi, Mitsuru; Watanabe, Kazutoshi; Yamakoshi, Koichi
PA Mitsubishi Pharma Corporation, Japan; Sanofi-Synthelabo
SO PCT Int. Appl., 153 pp.
CODEN: PIXXD2
common inventor
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003037888	A1	20030508	WO 2002-JP9685	20020920
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2460121	A1	20030508	CA 2002-2460121	20020920
	AU 2002337499	A1	20030512	AU 2002-337499	20020920
	AU 2002337499	B2	20070823		
	EP 1427720	A1	20040616	EP 2002-772871	20020920
	EP 1427720	B1	20090304		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	BR 2002012892	A	20040803	BR 2002-12892	20020920
	CN 1556804	A	20041222	CN 2002-818469	20020920
	HU 2004001900	A2	20041228	HU 2004-1900	20020920
	HU 2004001900	A3	20050829		
	JP 2005510506	T	20050421	JP 2003-540169	20020920
	NZ 531636	A	20051125	NZ 2002-531636	20020920
	CN 1810802	A	20060802	CN 2005-10097948	20020920
	TW 265164	B	20061101	TW 2002-91121655	20020920
	CN 101274928	A	20081001	CN 2008-10007669	20020920
	ZA 2004001845	A	20050307	ZA 2004-1845	20040305
	ZA 2004001850	A	20050307	ZA 2004-1850	20040305
	MX 2004002662	A	20041122	MX 2004-2662	20040319
	KR 881821	B1	20090203	KR 2004-704112	20040319
	NO 2004001600	A	20040616	NO 2004-1600	20040420
	NO 325781	B1	20080714		
	IN 2004CN00819	A	20060113	IN 2004-CN819	20040420
	US 20050090490	A1	20050428	US 2004-489606	20041101
	US 7427615	B2	20080923		
PRAI	JP 2001-331674	A	20010921		
	JP 2001-331675	A	20010921		
	JP 2001-331677	A	20010921		
	JP 2001-331678	A	20010921		
	CN 2002-818469	A3	20020920		

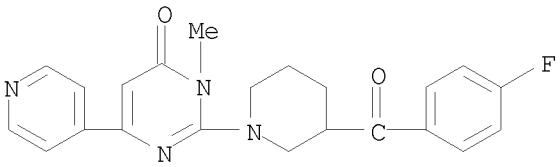
no ODP

two structural differences

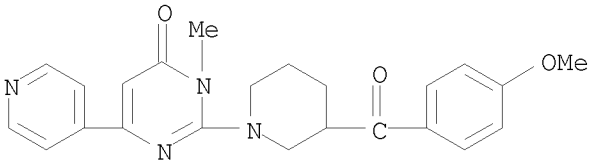
WO 2002-JP9685 W 20020920
OS MARPAT 138:368904
AB The title compds. [I; R1 = (un)substituted alkyl; R = NHCR2R3COR4, II-IV (wherein R2, R3 = H, alkyl; R4 = (un)substituted Ph, naphthyl, indanyl, etc.; R5 = (un)substituted alkyl, cycloalkyl, Ph, etc.; R6 = H, (un)substituted alkyl, Ph; or R5 and R6 may bind to each other to form spiro carbocylic ring having 3-11 ring-constituting atoms in total; R7, R8 = H, alkyl; or R7 and R8 may combine to each other to form alkylene; R9 and R10 = (un)substituted alkyl, cycloalkyl, Ph, etc.; X = CH2, O, NR13; R13 = H, alkyl)], useful for preventive or therapeutic treatment of a disease caused by tau protein kinase 1 hyperactivity (e.g. Alzheimer's disease), were prepared and formulated. Thus, reacting 2-amino-1-phenylethanone.HCl with 2-chloro-3-methyl-6-(4-pyridyl)pyrimidine-4-one (preparation given) in the presence of DMAP and Et3N in DMSO afforded 68% V which showed IC50 of 8.9 nM against P-GS1 phosphorylation by bovine cerebral TPK1.
IT 521968-94-5P 521968-95-6P 521968-96-7P
521968-97-8P 521968-98-9P 521968-99-0P
521969-00-6P 521969-01-7P 521969-09-5P
521969-10-8P 521969-11-9P 521969-12-0P
521969-13-1P 521969-14-2P 521969-15-3P
521969-16-4P 521969-17-5P 521969-18-6P
521969-19-7P 521969-20-0P 521969-21-1P
521969-22-2P 521969-23-3P 521969-25-5P
521969-27-7P 521969-29-9P 521969-31-3P
521969-33-5P 521969-35-7P 521969-37-9P
521969-39-1P 521969-41-5P 521969-42-6P
521969-93-7P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 3-substituted 4-pyrimidones as tau protein kinase 1 inhibitors)
RN 521968-94-5 CAPLUS
CN 4(3H)-Pyrimidinone, 2-(3-benzoyl-1-piperidinyl)-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



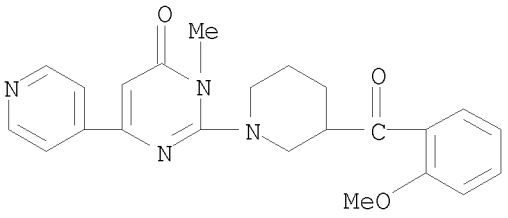
RN 521968-95-6 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-(4-fluorobenzoyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



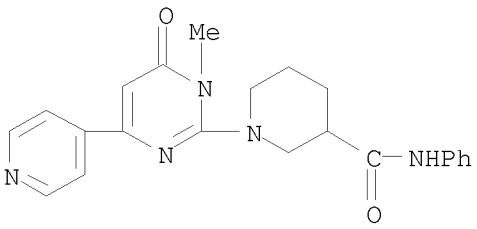
RN 521968-96-7 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-(4-methoxybenzoyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



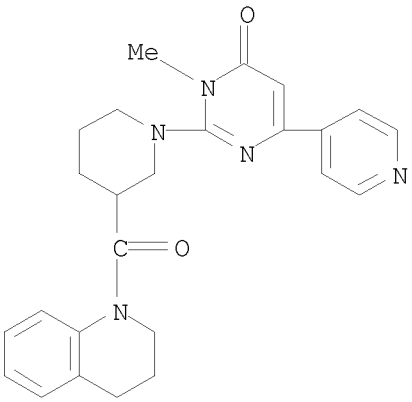
RN 521968-97-8 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-(2-methoxybenzoyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



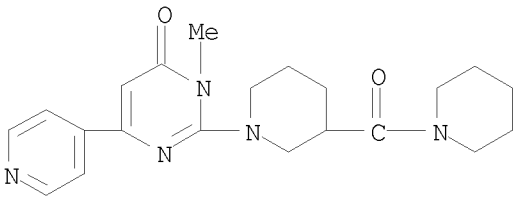
RN 521968-98-9 CAPLUS
CN 3-Piperidinecarboxamide, 1-[1,6-dihydro-1-methyl-6-oxo-4-(4-pyridinyl)-2-pyrimidinyl]-N-phenyl- (CA INDEX NAME)



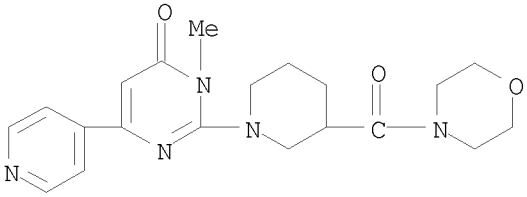
RN 521968-99-0 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-[(3,4-dihydro-1(2H)-quinolinyl)carbonyl]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



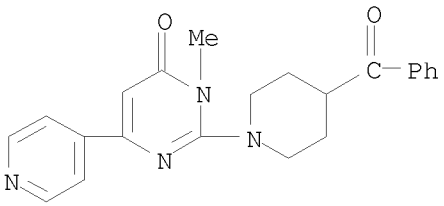
RN 521969-00-6 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-2-[3-(1-piperidinylcarbonyl)-1-piperidinyl]-6-(4-pyridinyl)- (CA INDEX NAME)



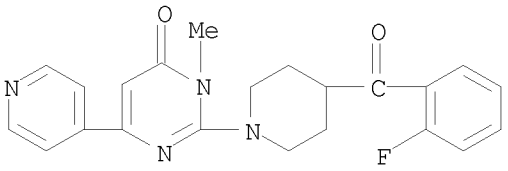
RN 521969-01-7 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-2-[3-(4-morpholinylcarbonyl)-1-piperidinyl]-6-(4-pyridinyl)- (CA INDEX NAME)



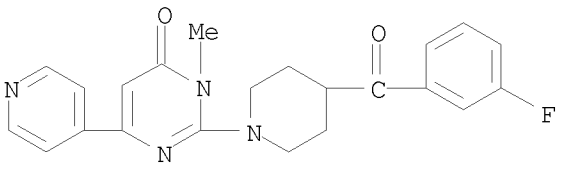
RN 521969-09-5 CAPLUS
CN 4(3H)-Pyrimidinone, 2-(4-benzoyl-1-piperidinyl)-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



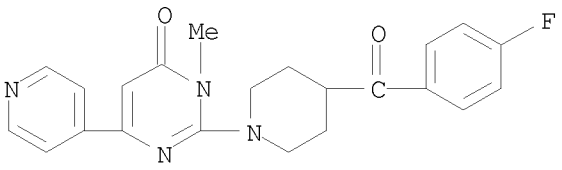
RN 521969-10-8 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(2-fluorobenzoyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



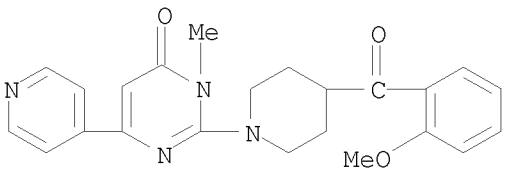
RN 521969-11-9 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(3-fluorobenzoyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



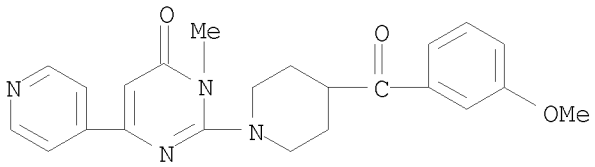
RN 521969-12-0 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(4-fluorobenzoyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



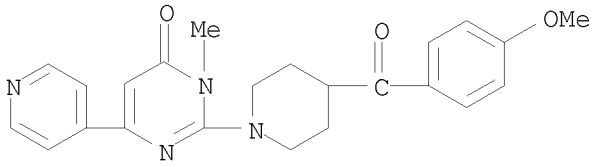
RN 521969-13-1 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(2-methoxybenzoyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



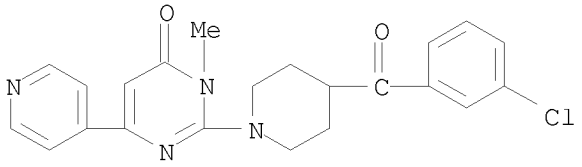
RN 521969-14-2 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(3-methoxybenzoyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



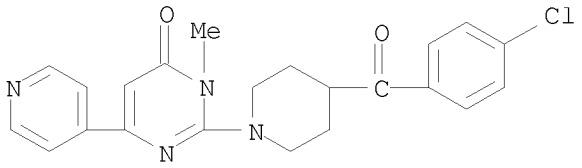
RN 521969-15-3 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(4-methoxybenzoyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



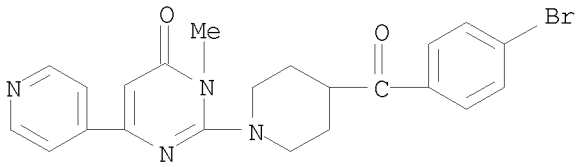
RN 521969-16-4 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(3-chlorobenzoyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



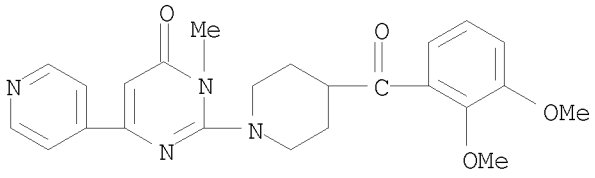
RN 521969-17-5 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(4-chlorobenzoyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



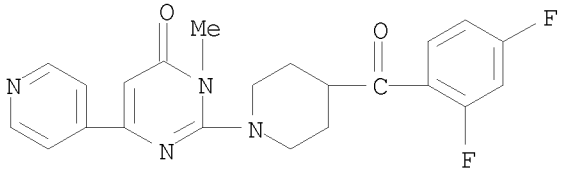
RN 521969-18-6 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(4-bromobenzoyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



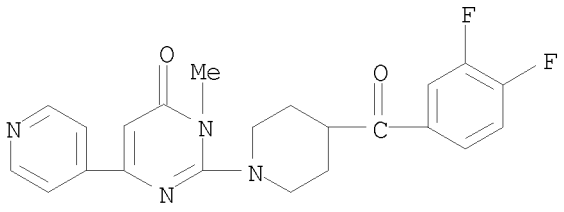
RN 521969-19-7 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(2,3-dimethoxybenzoyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



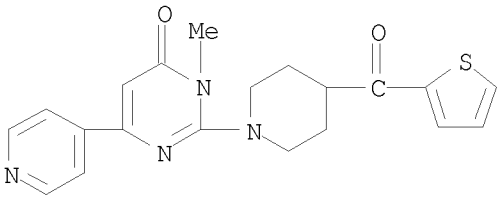
RN 521969-20-0 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(2,4-difluorobenzoyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



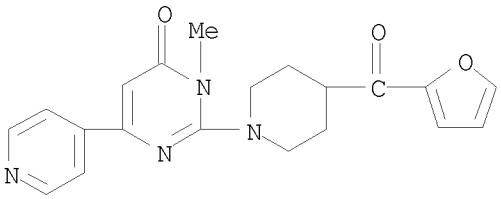
RN 521969-21-1 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(3,4-difluorobenzoyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



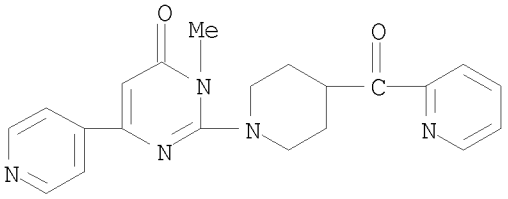
RN 521969-22-2 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-6-(4-pyridinyl)-2-[4-(2-thienylcarbonyl)-1-piperidinyl]- (CA INDEX NAME)



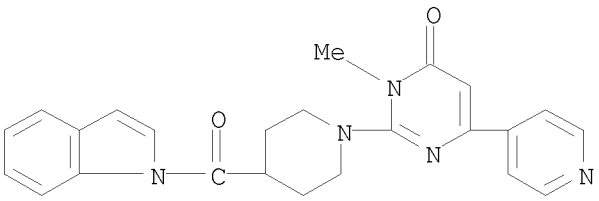
RN 521969-23-3 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(2-furanylcarbonyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



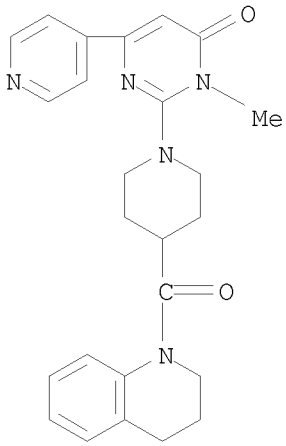
RN 521969-25-5 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-6-(4-pyridinyl)-2-[4-(2-pyridinylcarbonyl)-1-piperidinyl]- (CA INDEX NAME)



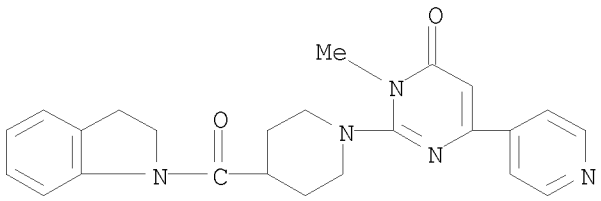
RN 521969-27-7 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(1H-indol-1-ylcarbonyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



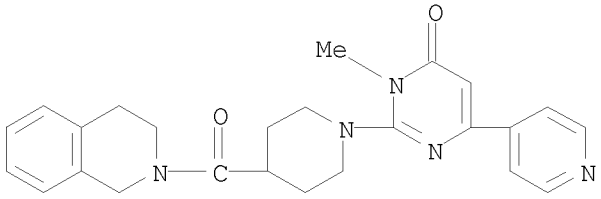
RN 521969-29-9 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-[(3,4-dihydro-1(2H)-quinolinyl)carbonyl]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



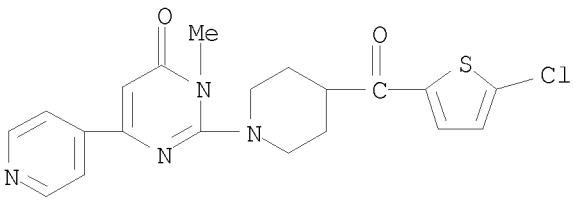
RN 521969-31-3 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-[(2,3-dihydro-1H-indol-1-yl)carbonyl]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



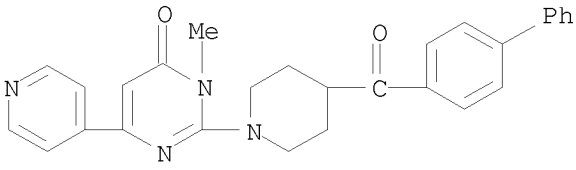
RN 521969-33-5 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-[(3,4-dihydro-2(1H)-isoquinolinyl)carbonyl]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



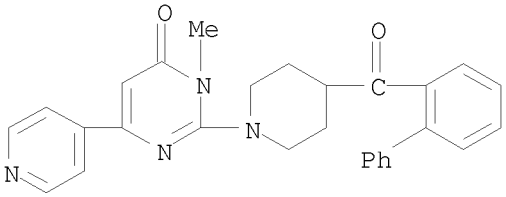
RN 521969-35-7 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-[(5-chloro-2-thienyl)carbonyl]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



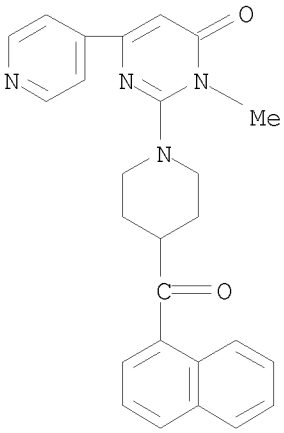
RN 521969-37-9 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-([1,1'-biphenyl]-4-ylcarbonyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



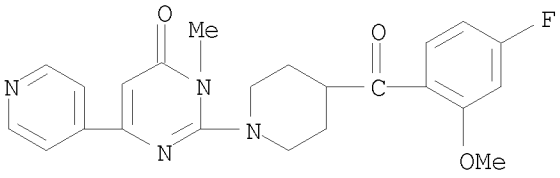
RN 521969-39-1 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-([1,1'-biphenyl]-2-ylcarbonyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



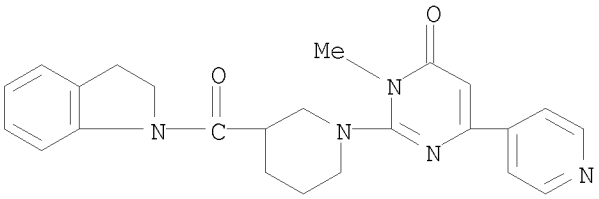
RN 521969-41-5 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-2-[4-(1-naphthalenylcarbonyl)-1-piperidinyl]-6-(4-pyridinyl)- (CA INDEX NAME)



RN 521969-42-6 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(4-fluoro-2-methoxybenzoyl)-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



RN 521969-93-7 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[3-[(2,3-dihydro-1H-indol-1-yl)carbonyl]-1-piperidinyl]-3-methyl-6-(4-pyridinyl)- (CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2003:261819 CAPLUS
DN 138:287693
TI Preparation of 6-pyrimidinyl 3-substituted-4-pyrimidones that inhibit tau protein kinase 1 useful against neurodegenerative diseases like Alzheimer's disease
IN Uehara, Fumiaki; Aritomo, Keiichi; Shoda, Aya; Hiki, Shinsuke; Okuyama, Masahiro; Usui, Yoshihiro; Ooizumi, Mitsuru; Watanabe, Kazutoshi
PA Mitsubishi Pharma Corporation, Japan; Sanofi-Synthelabo
SO PCT Int. Appl., 135 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003027080	A1	20030403	WO 2002-JP9684	20020920
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2460177	A1	20030403	CA 2002-2460177	20020920
	AU 2002337498	A1	20030407	AU 2002-337498	20020920
	AU 2002337498	B2	20060810		
	EP 1427709	A1	20040616	EP 2002-772870	20020920
	EP 1427709	B1	20051214		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	BR 2002012893	A	20040803	BR 2002-12893	20020920
	CN 1555367	A	20041215	CN 2002-818017	20020920
	CN 1319950	C	20070606		
	HU 2004001898	A2	20041228	HU 2004-1898	20020920
	HU 2004001898	A3	20050829		
	JP 2005510472	T	20050421	JP 2003-530670	20020920
	AT 312827	T	20051215	AT 2002-772870	20020920
	NZ 531637	A	20051223	NZ 2002-531637	20020920
	ES 2256540	T3	20060716	ES 2002-772870	20020920
	CN 1810802	A	20060802	CN 2005-10097948	20020920
	CN 101274928	A	20081001	CN 2008-10007669	20020920
	ZA 2004001845	A	20050307	ZA 2004-1845	20040305
	ZA 2004001850	A	20050307	ZA 2004-1850	20040305
	MX 2004002661	A	20041122	MX 2004-2661	20040319
	KR 754596	B1	20070905	KR 2004-704113	20040319
	NO 2004001604	A	20040617	NO 2004-1604	20040420
	IN 2004CN00821	A	20060113	IN 2004-CN821	20040420
	HK 1068608	A1	20060721	HK 2004-109693	20041207
	US 20050130967	A1	20050616	US 2005-489607	20050208
PRAI	JP 2001-331674	A	20010921		
	JP 2001-331675	A	20010921		
	JP 2001-331676	A	20010921		
	JP 2001-331678	A	20010921		

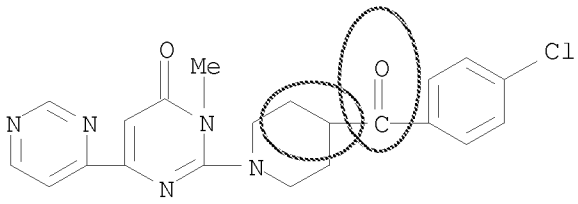
JP 2001-331677 A 20010921
CN 2002-818469 A3 20020920
WO 2002-JP9684 W 20020920

OS MARPAT 138:287693

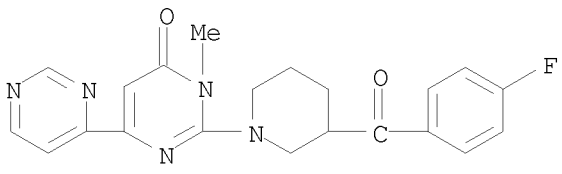
AB 6-Pyrimidinyl 3-substituted-4-pyrimidones (shown as I; variables defined below; e.g. 3-methyl-2-(2-oxo-2-phenylethylamino)-6-pyrimidin-4-yl-3H-pyrimidin-4-one), or a salt, solvate or hydrate thereof, having inhibitory activity against tau protein kinase 1 are claimed. For I: R1 = C1-C12 alkyl that may be substituted; R = NHCR2R3C(O)R4, etc. (R2 and R3 = H or a C1-C8 alkyl group; R4 = (un)substituted benzene, naphthalene, indan, tetrahydronaphthalene, or heterocyclic ring having 1-4 hetero atoms O atom, S atom and N atom, and having 5-10 ring-constituting atoms in total). Although the methods of preparation are not claimed, 5 example prepns. and characterization data for 75 examples of I are included. IC50 values for inhibition of tau protein kinase 1 by 77 examples of I are tabulated. Two examples of pharmaceutical formulations based on I are listed.

IT 503860-59-1P, 2-[4-(4-Chlorobenzoyl)piperidin-1-yl]-3-methyl-6-(pyrimidin-4-yl)-3H-pyrimidin-4-one 503861-31-2P, 2-[3-(4-Fluorobenzoyl)piperidin-1-yl]-3-methyl-6-(pyrimidin-4-yl)-3H-pyrimidin-4-one 503861-32-3P, 2-(3-Benzoylpiperidin-1-yl)-3-methyl-6-(pyrimidin-4-yl)-3H-pyrimidin-4-one 503861-33-4P, 2-[3-(2-Methoxybenzoyl)piperidin-1-yl]-3-methyl-6-(pyrimidin-4-yl)-3H-pyrimidin-4-one 503861-34-5P, 2-[3-(4-Methoxybenzoyl)piperidin-1-yl]-3-methyl-6-(pyrimidin-4-yl)-3H-pyrimidin-4-one
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; preparation of pyrimidinyl pyrimidones that inhibit tau protein kinase 1 useful against neurodegenerative diseases like Alzheimer's disease)

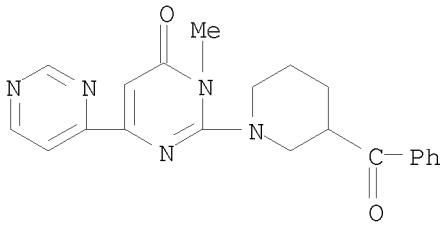
RN 503860-59-1 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[4-(4-chlorobenzoyl)-1-piperidinyl]-1-methyl- (CA INDEX NAME)



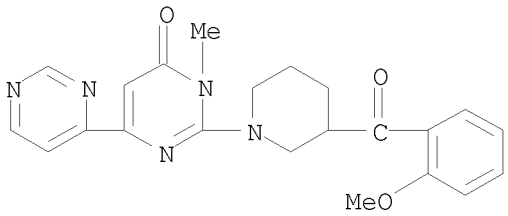
RN 503861-31-2 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3-(4-fluorobenzoyl)-1-piperidinyl]-1-methyl- (CA INDEX NAME)



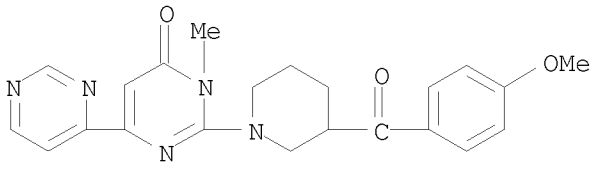
RN 503861-32-3 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-(3-benzoyl-1-piperidinyl)-1-methyl- (CA INDEX NAME)



RN 503861-33-4 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3-(2-methoxybenzoyl)-1-piperidinyl]-1-methyl- (CA INDEX NAME)



RN 503861-34-5 CAPLUS
CN [4,4'-Bipyrimidin]-6(1H)-one, 2-[3-(4-methoxybenzoyl)-1-piperidinyl]-1-methyl- (CA INDEX NAME)



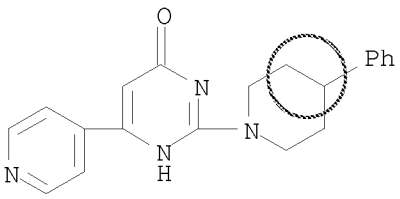
RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2001:709746 CAPLUS
DN 135:257261
TI Preparation of 2-(piperidin-1-yl)pyrimidones for preventive and/or therapeutic treatment of a neurodegenerative disease caused by abnormal activity of GSK3β
IN Almario-Garcia, Antonio; Frost, Jonathan Reid; Li-Tak, Adrien
PA Sanofi-Synthelabo, Fr.; Mitsubishi-Tokyo Pharmaceuticals, Inc.
SO Eur. Pat. Appl., 14 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1136489	A1	20010926	EP 2000-400802	20000323
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	WO 2001070728	A1	20010927	WO 2001-EP3639	20010322
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 2001062150	A	20011003	AU 2001-62150	20010322
PRAI	EP 2000-400801	A	20000323		
	EP 2000-400802	A	20000323		
	EP 2000-400803	A	20000323		
	WO 2001-EP3639	W	20010322		

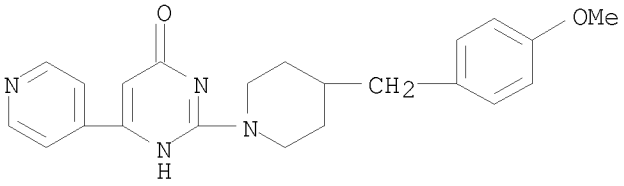
OS MARPAT 135:257261
AB The title compds. [I; R1 = (un)substituted aryl, heterocyclic ring having 1-4 hetero atoms selected from O, S, and N atoms, (un)substituted alkyl; R2 = pyridyl optionally substituted by alkyl, alkoxy or halo] and their salts, useful for preventive and/or therapeutic treatment of a neurodegenerative disease caused by abnormal activity of GSK3β, such as Alzheimer's disease, Parkinson's disease, frontoparietal dementia, corticobasal degeneration, Pick's disease, cerebrovascular accidents, brain and spinal trauma, and peripheral neuropathy, were prepared and formulated. E.g., a 3-step synthesis of I [R1 = Ph; R2 = 4-pyridyl] was given. All exemplified compds. I showed IC50's of 0.5-10 μM against GSK3β.
IT 362467-40-1P 362467-42-3P 362467-44-5P
362467-46-7P 362467-48-9P 362467-49-0P
362467-50-3P 362467-51-4P 362467-52-5P
362467-53-6P 362467-54-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 2-(piperidin-1-yl)pyrimidones for preventive and/or therapeutic treatment of a neurodegenerative disease caused by abnormal activity of GSK3β)
RN 362467-40-1 CAPLUS
CN 4(3H)-Pyrimidinone, 2-(4-phenyl-1-piperidinyl)-6-(4-pyridinyl)- (CA INDEX

NAME)

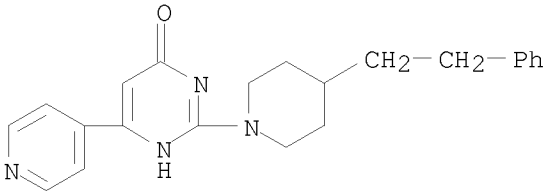


Two differences:
- (1) no unsaturation
- (2) the position of the phenyl sub on piperidine

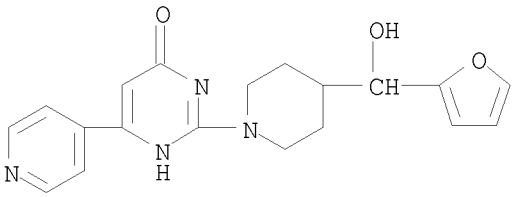
RN 362467-42-3 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-[(4-methoxyphenyl)methyl]-1-piperidinyl]-6-(4-pyridinyl)- (CA INDEX NAME)



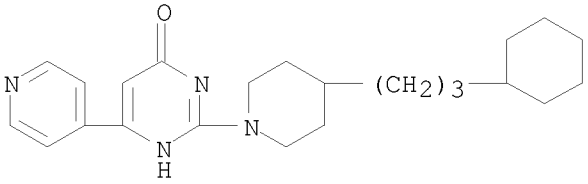
RN 362467-44-5 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(2-phenylethyl)-1-piperidinyl]-6-(4-pyridinyl)- (CA INDEX NAME)



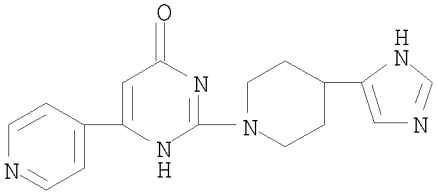
RN 362467-46-7 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(2-furanylhydroxymethyl)-1-piperidinyl]-6-(4-pyridinyl)- (CA INDEX NAME)



RN 362467-48-9 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(3-cyclohexylpropyl)-1-piperidinyl]-6-(4-pyridinyl)- (CA INDEX NAME)



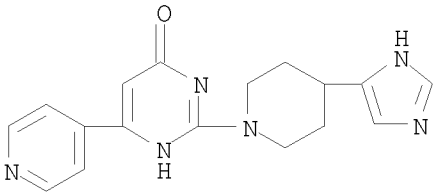
RN 362467-49-0 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(1H-imidazol-5-yl)-1-piperidinyl]-6-(4-pyridinyl)-
(CA INDEX NAME)



RN 362467-50-3 CAPLUS
CN 4(1H)-Pyrimidinone, 2-[4-(1H-imidazol-4-yl)-1-piperidinyl]-6-(4-pyridinyl)-
, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

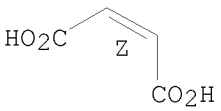
CRN 362467-49-0
CMF C17 H18 N6 O



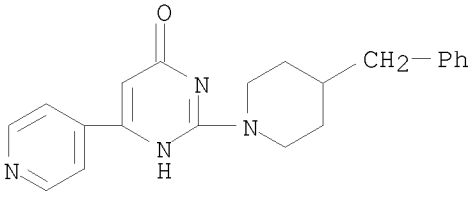
CM 2

CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.



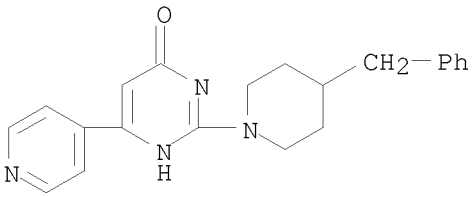
RN 362467-51-4 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(phenylmethyl)-1-piperidinyl]-6-(4-pyridinyl)-
(CA INDEX NAME)



RN 362467-52-5 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(phenylmethyl)-1-piperidinyl]-6-(4-pyridinyl)-,
ethanedioate (1:1) (CA INDEX NAME)

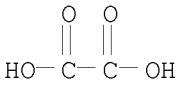
CM 1

CRN 362467-51-4
CMF C21 H22 N4 O

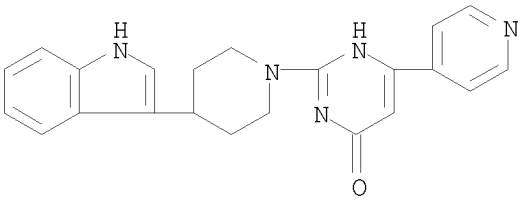


CM 2

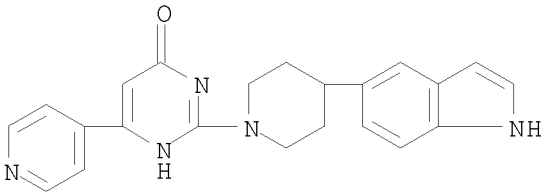
CRN 144-62-7
CMF C2 H2 O4



RN 362467-53-6 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(1H-indol-3-yl)-1-piperidinyl]-6-(4-pyridinyl)-
(CA INDEX NAME)



RN 362467-54-7 CAPLUS
CN 4(3H)-Pyrimidinone, 2-[4-(1H-indol-5-yl)-1-piperidinyl]-6-(4-pyridinyl)-
(CA INDEX NAME)



RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2001:709740 CAPLUS
DN 135:257256
TI Preparation of 2-amino-3-alkyl-pyrimidones as GSK3β inhibitors
IN Almario-Garcia, Antonio; Frost, Jonathan Reid; Li, Adrien-Tak; Ando, Ryoichi; Watanabe, Kazutoshi
PA Sanofi-Synthelabo, Fr.; Mitsubishi-Tokyo Pharmaceuticals, Inc.
SO Eur. Pat. Appl., 20 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

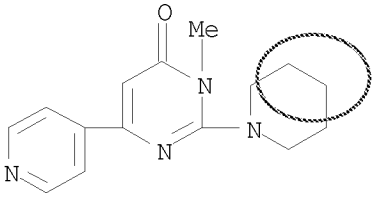
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1136482	A1	20010926	EP 2000-400800	20000323
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	CA 2401241	A1	20010927	CA 2001-2401241	20010322
	WO 2001070729	A1	20010927	WO 2001-EP3640	20010322
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 2001081487	A	20011003	AU 2001-81487	20010322
	EP 1276738	A1	20030122	EP 2001-959921	20010322
	EP 1276738	B1	20071212		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	CN 1419552	A	20030521	CN 2001-806991	20010322
	CN 1247567	C	20060329		
	JP 2003528095	T	20030924	JP 2001-568932	20010322
	CN 1891220	A	20070110	CN 2006-10006135	20010322
	AT 380806	T	20071215	AT 2001-959921	20010322
	ES 2296783	T3	20080501	ES 2001-959921	20010322
	KR 820543	B1	20080407	KR 2002-712431	20020919
	US 20030187004	A1	20031002	US 2002-221598	20021202
	US 6844335	B2	20050118		
	US 20050130998	A1	20050616	US 2005-35264	20050113
	US 7378413	B2	20080527		
PRAI	EP 2000-400800	A	20000323		
	CN 2001-806991	A3	20010322		
	WO 2001-EP3640	W	20010322		
	US 2002-221598	A3	20021202		

OS MARPAT 135:257256
AB The title compds. [I; R1 = H, alkyl; R2 = (un)substituted alkyl, alkenyl, aryl, etc.; or R1 and R2 form together (un)substituted alkylene; or R1 and R2 form together (CH2)2X(CH2)2, (CH2)2X(CH2)3 (wherein X = O, S (un)substituted NH); R3 = 2-, 3- or 4-pyridyl group optionally substituted by alkyl alkoxy or halogen atom; R4 = alkyl optionally substituted by aryl], useful for preventive and/or therapeutic treatment of a neurodegenerative disease caused by abnormal activity of GSK3β such as Alzheimer's disease, Parkinson's disease, frontoparietal dementia,

corticobasal degeneration, Pick's disease, cerebrovascular accidents, brain and spinal trauma, and peripheral neuropathies, were prepared and formulated. The compds. I synthesized by reacting 3-methyl-2-(methylthio)-6-pyridin-4-ylpyrimidin-4(3H)-one (preparation given) with the corresponding amine or by N-alkylation of the substituted 2-amino-3-methylpyrimidinone with alkyl iodide. The compds. I showed IC50's of 0.1-10 μM against GSK3β.

IT 362013-99-8P 362014-00-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 2-amino-3-alkyl-pyrimidones as GSK3β inhibitors)

RN 362013-99-8 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-2-(1-piperidinyl)-6-(4-pyridinyl)- (CA INDEX NAME)

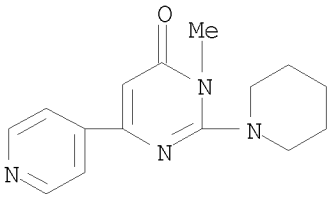


Two differences:
- no double bond
- no substituent @ 3-position

RN 362014-00-4 CAPLUS
CN 4(3H)-Pyrimidinone, 3-methyl-2-(1-piperidinyl)-6-(4-pyridinyl)-, (2R,3R)-2,3-dihydroxybutanedioate (9CI) (CA INDEX NAME)

CM 1

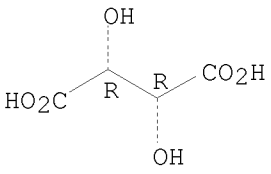
CRN 362013-99-8
CMF C15 H18 N4 O



CM 2

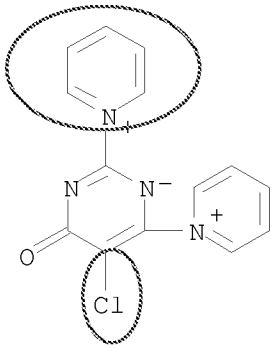
CRN 87-69-4
CMF C4 H6 O6

Absolute stereochemistry.



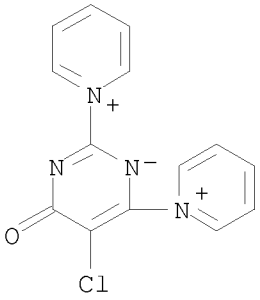
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2001:335201 CAPLUS
DN 135:137457
TI Mesomeric betainium salts. Synthesis, X-ray analysis, and ESIMS studies of tripolar pyrimidin-4-olates and pyrimidin-4-aminides
AU Schmidt, Andreas; Nieger, Martin
CS Technische Universitat Clausthal, Institut fur Organische Chemie, Clausthal-Zellerfeld, D-38678, Germany
SO Heterocycles (2001), 55(5), 827-834
CODEN: HTCYAM; ISSN: 0385-5414
PB Japan Institute of Heterocyclic Chemistry
DT Journal
LA English
OS CASREACT 135:137457
AB Reaction of tetrachloropyrimidine with pyridine in acetone in the presence of NaI yielded the pyrimidin-4-olate (3; shown as I, X = O). Applying analogous reaction conditions to 4-amino substituted 2,5,6-trichloropyrimidine gave bispyridinium salts which yield aminides (6a,b; shown as I, X = NH, NPh) on deprotonation. As evidenced by UV spectroscopy and electrospray MS spectrometry, the title compds. 3 and 6a,b form π-sandwich complexes in solution
IT 351535-48-3
RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative)
(identification by electrospray mass spectrometry)
RN 351535-48-3 CAPLUS
CN Pyridinium, 1,1'-(5-chloro-1,6-dihydro-6-oxo-2,4-pyrimidinediyl)bis-, inner salt, iodide (2:2:1) (9CI) (CA INDEX NAME)



●1/2 I⁻

IT 351535-47-2P
RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
(preparation, crystal structure, neg. solvatochromism and supramol. association
of)
RN 351535-47-2 CAPLUS
CN Pyridinium, 1,1'-(5-chloro-1,6-dihydro-6-oxo-2,4-pyrimidinediyl)bis-, inner salt, iodide (9CI) (CA INDEX NAME)

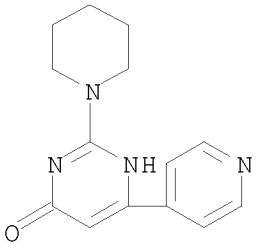


RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2000:227649 CAPLUS
DN 132:265206
TI Preparation of pyrimidones for treating diseases caused by tau protein kinase 1 hyperactivity such as Alzheimer disease
IN Watanabe, Kazutoshi; Ando, Ryoichi; Saito, Ken-ichi; Kawamoto, Rie; Shoda, Aya
PA Mitsubishi Chemical Corporation, Japan
SO PCT Int. Appl., 106 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

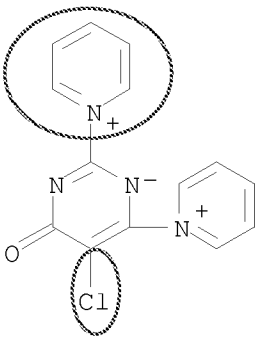
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000018758	A1	20000406	WO 1999-JP5224	19990924
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	TW 241298	B	20051011	TW 1999-88116437	19990923
	CA 2345065	A1	20000406	CA 1999-2345065	19990924
	AU 9957599	A	20000417	AU 1999-57599	19990924
	EP 1115721	A1	20010718	EP 1999-944815	19990924
	EP 1115721	B1	20031210		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002525366	T	20020813	JP 2000-572218	19990924
	AT 256123	T	20031215	AT 1999-944815	19990924
	PT 1115721	T	20040430	PT 1999-944815	19990924
	ES 2214045	T3	20040901	ES 1999-944815	19990924
	US 7256199	B1	20070814	US 2001-787426	20010702
PRAI	JP 1998-271277	A	19980925		
	JP 1998-305266	A	19981027		
	WO 1999-JP5224	W	19990924		

OS MARPAT 132:265206
AB The title compds. [I; R1 = C1-18 alkyl, C3-18 alkenyl, C3-18 alkenyl, etc.; R2 = H, OH, C1-18 alkyl, etc.; R3 = (un)substituted pyridyl], useful for preventive and/or therapeutic treatment of a disease caused by tau protein kinase 1 hyperactivity such as Alzheimer disease, were prepared and formulated. Thus, reacting Et 3-(4-pyridyl)-3-oxopropionate with 3-amidinopyridine.HCl in the presence of K2CO3 in EtOH afforded I [R1 = 3-pyridyl; R2 = H; R3 = 4-pyridyl] which showed IC50 of 2.3 μM against P-GS1 phosphorylation by bovine cerebral TPK1.
IT 263244-14-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of pyrimidones for treating diseases caused by tau protein kinase 1 hyperactivity such as Alzheimer disease)
RN 263244-14-0 CAPLUS
CN 4(3H)-Pyrimidinone, 2-(1-piperidinyl)-6-(4-pyridinyl)- (CA INDEX NAME)



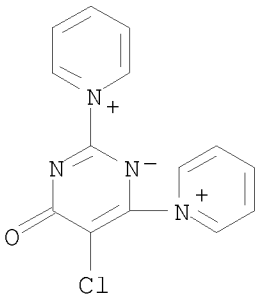
RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1999:601373 CAPLUS
DN 131:336994
TI Novel dipolar and tripolar betaines: synthesis, ring cleavage, spectroscopic features, and x-ray analysis of a positively charged pyrimidin-4-olate
AU Schmidt, Andreas; Nieger, Martin
CS Ernst-Moritz-Arndt-Universitat Greifswald, Institut fur Chemie und Biochemie, Greifswald, D-17487, Germany
SO Heterocycles (1999), 51(9), 2119-2126
CODEN: HTCYAM; ISSN: 0385-5414
PB Japan Institute of Heterocyclic Chemistry
DT Journal
LA English
AB Reaction of tetrachloropyrimidine with pyridine resulted in the formation of a heteroarom. tripole, 2,6-bispyridiniopyrimidin-4-olate chloride, the structure of which was established by X-Ray crystallog. Amberlite IRA-400 in its hydroxy form converted 2,6-bispyridiniopyrimidin-4-olate chloride into a corresponding stable hydroxide, which undergoes ring-cleavage on titration with sodium hydroxide to pH 9. Thus, a 5-amino-2,4-pentadienal-appended mesomeric betaine was formed.
IT 249931-35-9P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of dipolar and tripolar betaines, their ring cleavage, properties, and x-ray structure of hydroxypyridinium inner salt)
RN 249931-35-9 CAPLUS
CN Pyridinium, 1,1'-(5-chloro-1,6-dihydro-6-oxo-2,4-pyrimidinediyl)bis-, inner salt, chloride (9CI) (CA INDEX NAME)



● Cl^-

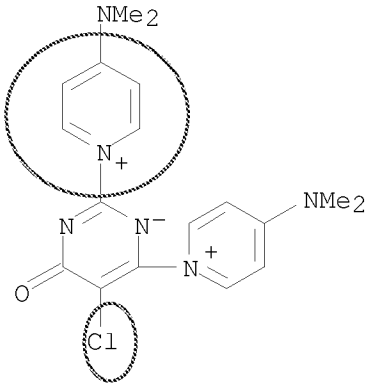
IT 249931-36-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of dipolar and tripolar betaines, their ring cleavage, properties, and x-ray structure of hydroxypyridinium inner salt)
RN 249931-36-0 CAPLUS
CN Pyridinium, 1,1'-(5-chloro-1,6-dihydro-6-oxo-2,4-pyrimidinediyl)bis-, inner salt, hydroxide (9CI) (CA INDEX NAME)



● OH^-

RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1998:446690 CAPLUS
DN 129:148956
OREF 129:30365a,30368a
TI Heteroaromatic Tripoles. 2,6-Bis(hetarenio)pyrimidin-4-olates: Hybrids between Hetarenium Salts and Cross-Conjugated Mesomeric Betaines
AU Schmidt, Andreas; Kindermann, Markus Karl
CS Ernst-Moritz-Arndt-Universitaet Greifswald, Greifswald, D-17487, Germany
SO Journal of Organic Chemistry (1998), 63(14), 4636-4644
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
AB A novel tandem nucleophilic displacement reaction on 2,4,5,6-tetrachloropyrimidine leads to mols. with two delocalized pos. and one delocalized neg. charge, which comprise a common π-electron system, plus one external anion. Thus, treatment of 2,4,5,6-tetrachloropyrimidine with an excess of heteroarom. nucleophiles such as 4-(dimethylamino)pyridine, 4-(pyrrolidin-1-yl)pyridine, and 1-methylimidazole, resp., followed by the addition of water formed the tripolar bis(pyridinium)pyrimidin-4-olates I (R = Me2N, 1-pyrrolidinyl; R1 = O-; X = Cl, BPh4, I) and bis(methylimidazolium)pyrimidin-4-olates II (R1 = O-; X = Cl, BPh4, I). Addition of anhydrous alcs. furnished the O-alkylated dicationic species I (R = Me2N, 1-pyrrolidinyl; R1 = MeO, EtO, Me2CHO; X = BPh4) and II (R1 = MeO, EtO, Me2CHO; X = BPh4). We contrast the spectroscopic features of the monocationic I and II (R1 = O-) and the dicationic I and II (R1 = MeO, EtO, Me2CHO) and performed a conformational study on I (R = Me2N; R1 = O-; X = no anion) (PM3). The HOMO/LUMO profile of I (R = Me2N; R1 = O-; X = no anion) was calculated to evaluate our classification of I and II as cross-conjugated mesomeric betaine (CCMB) derivs.
IT 210833-67-3
RL: PRP (Properties)
(conformational anal. and MO calcns. on the [di(4-dimethylamino)pyridinium]pyrimidinium cation)
RN 210833-67-3 CAPLUS
CN Pyridinium, 1,1'-(5-chloro-1,6-dihydro-6-oxo-2,4-pyrimidinediyl)bis[4-(dimethylamino)-, inner salt (9CI) (CA INDEX NAME)

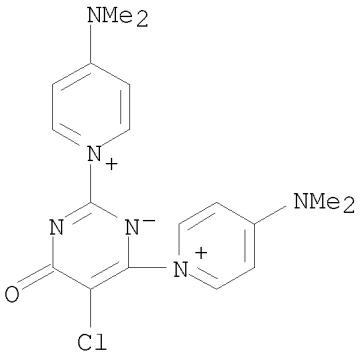


IT 210833-66-2P 210833-68-4P 210833-69-5P
210833-70-8P 210833-72-0P 210833-73-1P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation of bis(pyridinium)pyrimidinolates and
bis(imidazolium)pyrimidinolates as tripolar mesoionic compds.)

RN 210833-66-2 CAPLUS

CN Pyridinium, 1,1'-(5-chloro-1,6-dihydro-6-oxo-2,4-pyrimidinediyl)bis[4-(dimethylamino)-, inner salt, chloride (9CI) (CA INDEX NAME)



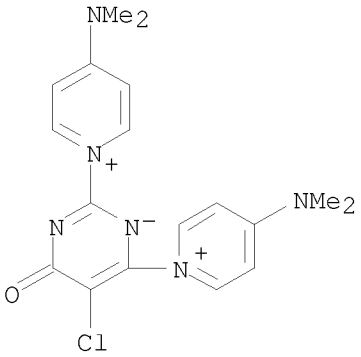
● Cl^-

RN 210833-68-4 CAPLUS

CN Pyridinium, 1,1'-(5-chloro-1,6-dihydro-6-oxo-2,4-pyrimidinediyl)bis[4-(dimethylamino)-, inner salt, tetraphenylborate(1-) (9CI) (CA INDEX NAME)

CM 1

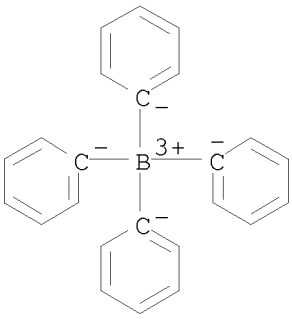
CRN 210833-67-3
CMF C18 H20 Cl N6 O



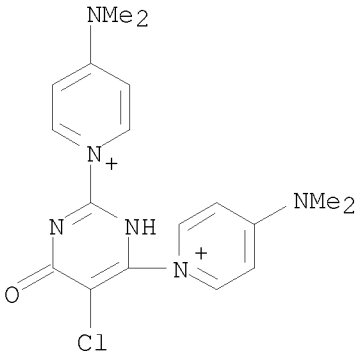
CM 2

CRN 4358-26-3
CMF C24 H20 B

CCI CCS

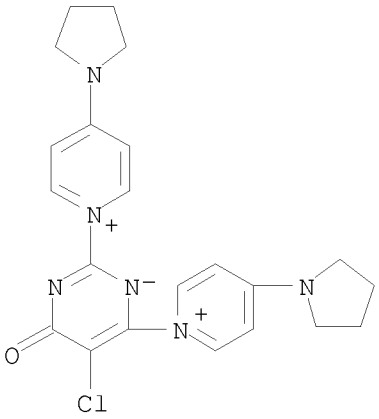


RN 210833-69-5 CAPLUS
CN Pyridinium, 1,1'-(5-chloro-1,6-dihydro-6-oxo-2,4-pyrimidinediyl)bis[4-(dimethylamino)-, diiodide (9CI) (CA INDEX NAME)



●2 I⁻

RN 210833-70-8 CAPLUS
CN Pyridinium, 1,1'-(5-chloro-1,6-dihydro-6-oxo-2,4-pyrimidinediyl)bis[4-(1-pyrrolidinyl)-, inner salt, chloride (9CI) (CA INDEX NAME)

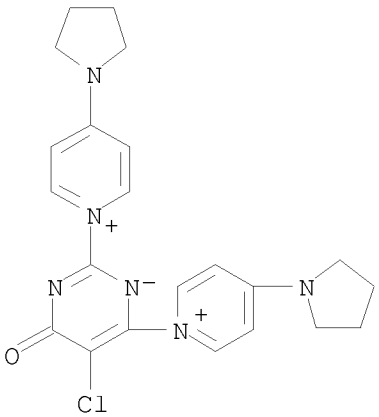


● Cl^-

RN 210833-72-0 CAPLUS
CN Pyridinium, 1,1'-(5-chloro-1,6-dihydro-6-oxo-2,4-pyrimidinediyl)bis[4-(1-pyrrolidinyl)-, inner salt, tetraphenylborate(1-) (9CI) (CA INDEX NAME)

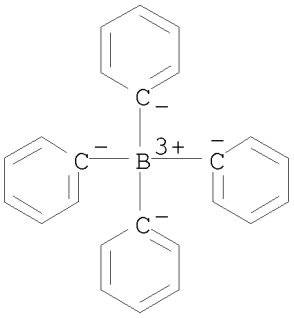
CM 1

CRN 210833-71-9
CMF C22 H24 Cl N6 O

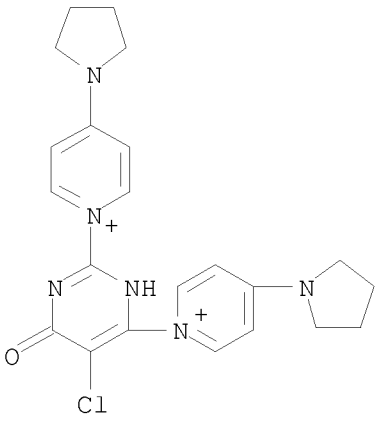


CM 2

CRN 4358-26-3
CMF C24 H20 B
CCI CCS



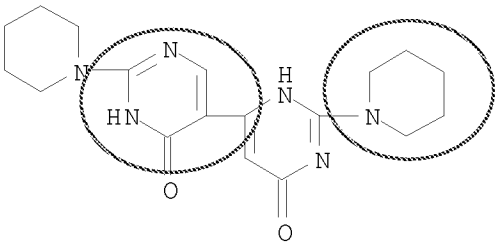
RN 210833-73-1 CAPLUS
CN Pyridinium, 1,1'-(5-chloro-1,6-dihydro-6-oxo-2,4-pyrimidinediyl)bis[4-(1-pyrrolidinyl)-, diiodide (9CI) (CA INDEX NAME)



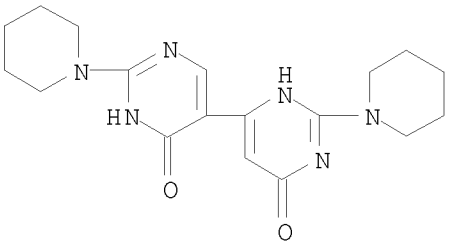
●2 I^-

RE.CNT 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1977:189847 CAPLUS
DN 86:189847
OREF 86:29777a,29780a
TI Synthesis with pyrimidinyllithium compounds and properties of a series of 4,4'- and 4,5'-bipyrimidine derivatives
AU Strekowski, Lucjan
CS Uniw. Adama Mickiewicza, Poznan, Pol.
SO Seria Chemia (Uniwersytet im. Adama Mickiewicza w Poznaniu) (1976), 20, 114 pp.
CODEN: SCUCDH; ISSN: 0554-8241
DT Journal
LA Polish
AB 4,5'-Bipyrimidines with methoxy or methylthio substituents at positions 4' and 6 were prepared In a typical run, a 5-bromo-4-methoxypyrimidine was treated with .apprx.0.6-0.8 molar equivalent BuLi, kept, then quenched with H2O. 5-Bromo-2,4-bis(alkylthio)pyrimidines and 5-bromo-2,4-di-tert-butoxypyrimidine (I) in THF gave rise to mixts. of 4,4'- and 4,5'-bipyrimidine, but in Et2O I gave rise to the 4,5'-bipyrimidine only. The bipyrimidines can be formed through the nucleophilic addition of pyrimidinyl-lithiums to 4,5-didehydropyrimidines or to the N(1)-C(6) azomethine bond in the pyrimidine ring of the substrates. 5-Bromo-2,4-dichloropyrimidine on treatment with controlled quantities of nucleophiles, such as alkoxide and alkylmercaptide anions and secondary amines, could exchange its Cl at position 4 with high selectivity. A nucleophilic displacement of the Cl at position 2 in the products gave rise to 5-bromopyrimidines with various substituents at positions 2 and 4. Mass spectra of the pyrimidine derivs. were reported. Some of the compds. showed unusual decomposition patterns of the mol. ions.
IT 59549-60-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 59549-60-9 CAPLUS
CN [4,5'-Bipyrimidine]-4',6(1H,3'H)-dione, 2,2'-di-1-piperidinyl- (CA INDEX NAME)



L4 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1976:421278 CAPLUS
DN 85:21278
OREF 85:3477a,3480a
TI Syntheses with pyrimidine-lithium compounds. III. Bipyrimidines from 2,4-disubstituted 5-bromopyrimidines
AU Strekowski, Lucjan
CS Inst. Chem., Adam Mickiewicz Univ., Poznan, Pol.
SO Bulletin de l'Academie Polonaise des Sciences, Serie des Sciences Chimiques (1976), 24(1), 17-28
CODEN: BAPCAQ; ISSN: 0001-4095
DT Journal
LA English
OS CASREACT 85:21278
AB The bipyrimidines I (R = Me2N, piperidino, and MeO, R1 = MeO; R = MeO, R1 = MeS) were prepared by treating II with BuLi in THF. II (R = R1 = Me3CO) with BuLi in THF gave I and the 4,4'-bipyridine derivs., but in Et2O gave only I.
IT 59549-60-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 59549-60-9 CAPLUS
CN [4,5'-Bipyrimidine]-4',6(1H,3'H)-dione, 2,2'-di-1-piperidinyl- (CA INDEX NAME)



```
=> log y
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      91.24     278.78

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                     -13.12     -13.12

STN INTERNATIONAL LOGOFF AT 20:27:09 ON 27 MAR 2009
```